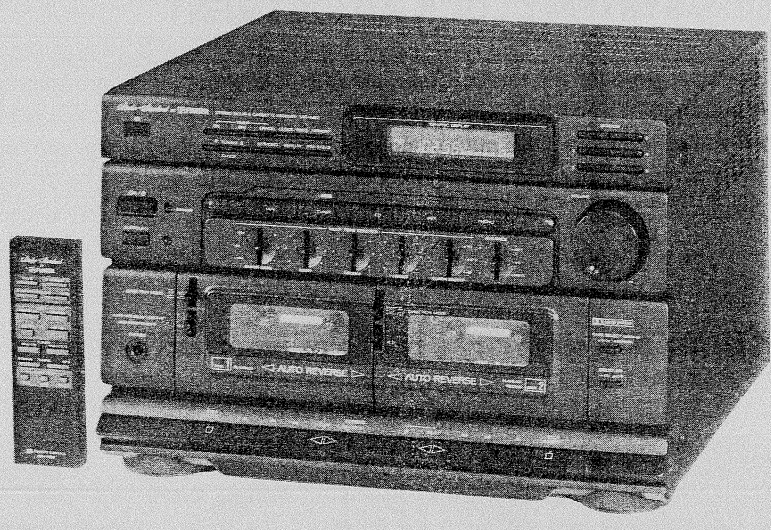
SERVICE MANUAL

FISHER

STEREO DOUBLE CASSETTE RECEIVER WITH REM-M92 WIRELESS REMOTE CONTROL

TAC-M92

(EUROPE)



132 350 40 (Black)
132 350 41 (White)

SPECIFICATIONS

Amplifier Section
Minimum RMS sine wave power per channel at 6 ohms within rated bandwidth at no more than rated THD ..... 35 Watts
Power Bandwidth ..... 60 Hz – 20 kHz
Total Harmonic Distortion ..... 0.9 %

FM Tuner Section
Usable Sensitivity (Mono) ..... 3.3µV/15.1 dBf
Signal-to-Noise Ratio (Mono) ..... 67 dB
Stereo Separation at 1 kHz ..... 43 dB

MW Tuner Section
Usable Sensitivity 600µV/m
Signal-to-Noise Ratio ..... 55 dB

LW Tuner Section
Usable Sensitivity 2300µV/m
Signal-to-Noise Ratio ..... 50 dB

Cassette Section
Frequency Response ..... 50 Hz – 14 kHz
Wow and Flutter (WRMS) ..... 0.15 %
Channel Separation ..... 40 dB

General
Power Requirements ..... AC 220V
(50 Hz) ..... 190 Watts
Dimensions (WxHxD) ..... 360 x 235 x 320 mm
Weight (approx.) ..... 7.7 kg

Dolby is a registered trademark of Dolby Laboratories Licensing Corporation.

– Specifications and design are subject to change without notice. –

REFERENCE No. WM-570303

CAUTION ON RF ADJUSTMENT

This model uses a microprocessor for memory preset control for the various bands.
This function has been used to preset frequency points for the different bands to permit adjustment and make it possible to check the function of the microprocessor. To use this supplemental function, ground initialize test point TP8 (R263 Resistor) for 1 second before beginning adjustment. The following table shows the initially preset frequencies.

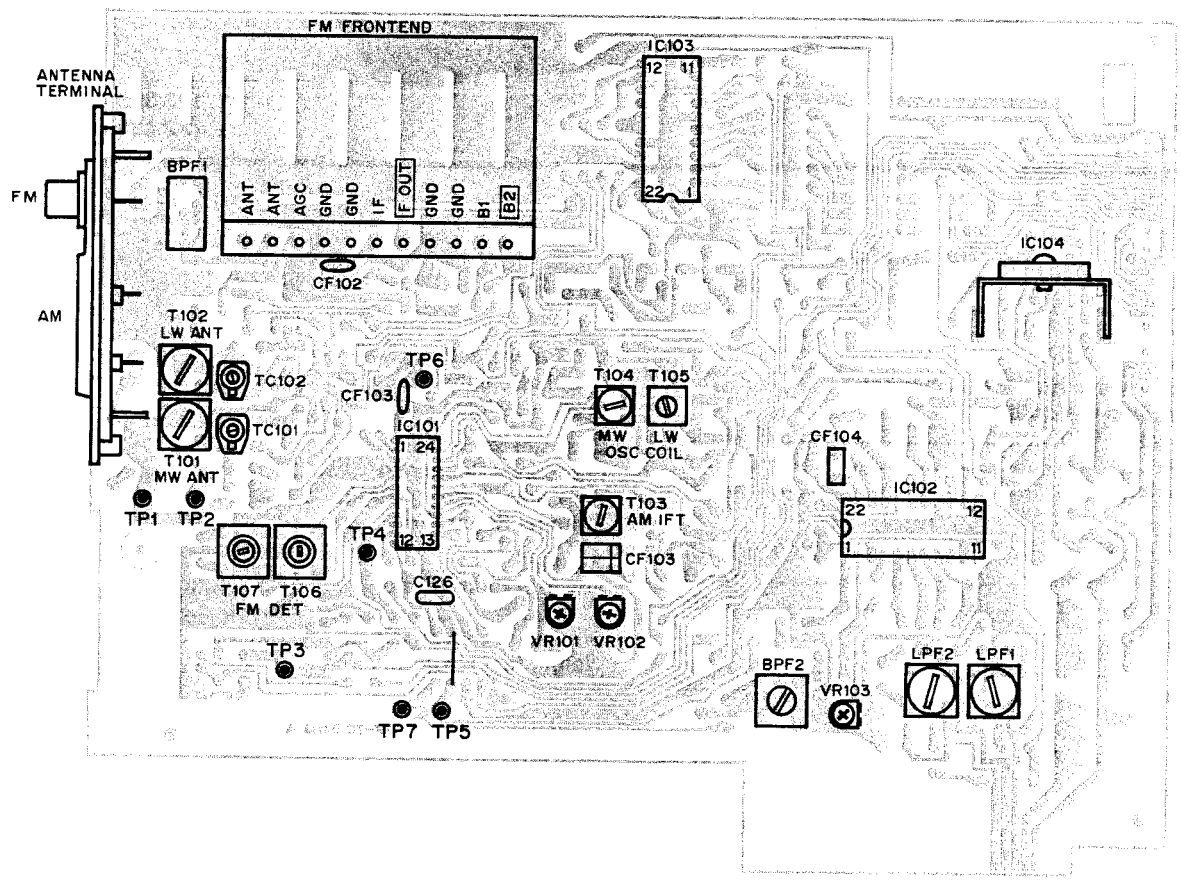
Band	Memory					
	1	2	3	4	5	6
FM-1	87.5MHz	108MHz	88MHz	98MHz	108MHz	90MHz
MW/LW	603kHz	1404kHz	999kHz	160kHz	350kHz	250kHz

SYSTEM CLOCK ADJUSTMENT

Since this adjustment sets standard time for the total system, be sure to adjust before operation.

1. Set the preset STATION button to "1" position . Set to 87.5MHz.
2. Connect the Frequency Counter between the F out terminal on the (FM Front End) and ground.
3. Adjust the TC251 until the Frequency Counter reads 98.200000MHz ± 100Hz.
   (Avoid the minus " – " disparity as much as possible in case the clock lags behind.)

TUNER P.C.BOARD ADJUSTMENT POINTS
(TOP VIEW)



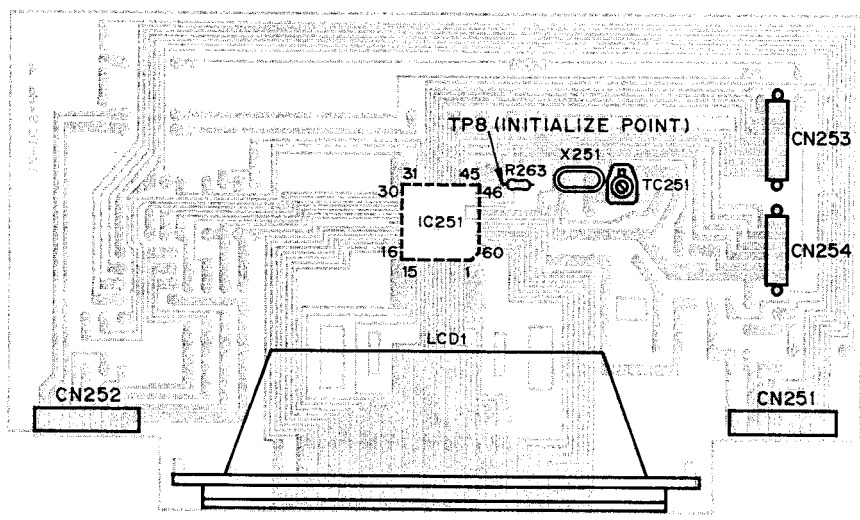
FM TUNER ALIGNMENT

FM ALIGNMENT – FUNCTION switch to FM/STEREO position.
Note: It is almost unnecessary to adjust coil in Front End as perfectly adjusted

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. FM IF S-CURVE ALIGNMENT	Connect 10.7MHz Radio IF Generator output to TP6 and ground lead to chassis. Use 5pF capacitor in series with generator output lead.	Position of non-interference Minimum Frequency.	Connect Radio IF Genescope input to TP7 and ground lead to shassis.	Adjust FM DET 1st Coil (T106) and FM DET 2nd Coil (T107) so that S-wave form becomes symmetrical.
2. DETECTOR ADJUSTMENT (MINIMUM T.H.D.)	Connect FM RF signal generator through FM Dummy Antenna to FM Antenna terminals. Set generator output level to 60dBμV at 98MHz±2kHz.	Set Preset STATION button to "4" position. Set to 98MHz. Set MODE switch to MONO.	Connect DC Voltmeter across TP3 and TP4.	Adjust FM DET 1st Coil (T106) until DC Voltmeter reads 0V ±50mV.
			Harmonic Distortion Analyzer to SPEAKER OUT.	Adjust FM DET 2nd Coil (T107) for minimum gain and best linearity.
Note: Repeat Step 1 (FM DET 1st Coil T106) and 2 (FM DET 2nd Coil T107) until optimum alignment is reached.				
3. FM MUTING AUTO STOP LEVEL ADJUSTMENT	Same as above. Adjust attenuator output level for 18dBμV.	Same as above.	Front panel TUNED Display Indicator.	Set MODE Switch to STEREO. Adjust VR101 until the TUNED Indicator partly light up.
Note: Decrease the output level of ATT and confirm that the wave form disappears. Increase the output level of ATT again and confirm that the input level meets the specifications sufficiently when the wave form has appeared.				
4. FM STEREO SIGNAL SEPARATION CONTROL	Connect FM Stereo SG to FM Antenna terminals. Set generator output level 70dBμV at 98MHz stereo signal (Main 40kHz, Pilot 6.75kHz.)	Set FM MODE switch to STEREO.	Connect AC VTVM and Oscilloscope to SPEAKER OUT.	Adjust VR103 for minimum output.
	Same as above for RIGHT channel.		Connect AC VTVM and Oscilloscope to SPEAKER OUT.	

Use a screwdriver with plastic grip for all adjustments.

CONTROL P.C.BOARD ADJUSTMENT POINTS
(TOP VIEW)



AM TUNER ALIGNMENT

AM ALIGNMENT – FUNCTION switch to MW or LW position.
Maintain generator output as low as possible for suitable indication.

Note: Perform this alignment after FM Tuner Alignment.

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. AM IF ALIGNMENT	Connect 450kHz Radio IF Genescope output to TP1 and TP2 Adjust output level to 70dBμV.	Position of non-interference Minimum Frequency.	Connect Radio IF Genescope input to TP5 and ground lead to chassis.	Adjust AM IFT (T103) for maximum gain and best symmetry. Keep signal low enough for noise on response.
2. MW RF FREQUENCY COVER ALIGNMENT (1611kHz)	Do not connect generator.	Front Panel DIGITAL Counter Display Set to 1611kHz.	Connect DC Voltmeter to B2 (Front End) and ground lead to chassis.	Check DC Voltmeter for Indication 7.0V ~ 9.0V.
3. (522kHz)	Same as above.	DIGITAL Counter Display Set to 522kHz.	Same as above.	Check DC Voltmeter for Indication 1.0V ~ 1.4V.
Note: Repeat the adjustments in items 2 and 3. Then, confirm that each voltage becomes 1.3V to 8.03V at receiving frequency of 522kHz to 1611kHz. **(See Table 1)**				
4. LW RF FREQUENCY COVER ALIGNMENT (360kHz)	Do not connect generator.	Front Panel DIGITAL Counter Display Set to 360kHz.	Connect DC Voltmeter to B2 (Front End) and ground lead to chassis.	Check DC Voltmeter for Indication 6.0V ~ 8.0V.
5. (153kHz)	Same as above.	DIGITAL Counter Display Set to 153kHz.	Same as above.	Check DC Voltmeter for Indication 0.7V ~ 1.2V.
Note: Repeat the adjustments in Items 4 and 5. Then, confirm that each voltage becames 0.93V to 6.7V at receiving frequency of 153kHz to 360kHz. **(See Table 1)**				
6. MW RF TRACKING ALIGNMENT (603kHz)	Connect Standard Loop Antenna to output terminal of AM RF Signal Generator. Place Loop Antenna 60cm away from Loop antenna (Unit). Generator Setting to 603kHz or 1404kHz. Modulate with 400Hz (30 % modulation).	Set Preset STATION button to "1" position. Set to 603kHz.	Connect AC VTVM and Oscilloscope to SPEAKER OUT.	Adjust MW ANT Coil (T101) for maximum gain output.
7. (1404kHz)		Change Preset STATION button to "2" position. Set to 1404kHz.	Same as above.	Adjust MW ANT Trimmer (TC101) for maximum gain output.
Note: Repeat the adjustments in Items 6 and 7. Then, confirm there is no tracking error.				
8. LW RF TRACKING ALIGNMENT (160kHz)	Change generator setting to 160kHz.	Set Preset STATION button to "4" position. Set to 160kHz.	Connect AC VTVM and Oscilloscope to TUNER OUT.	Adjust LW ANT Coil (T102) for maximum gain output.
9. (350kHz)	Change generator setting to 350kHz.	Change Preset STATION button to "5" position. Set to 350kHz.	Same as above.	Adjust LW ANT Trimmer (TC102) for maximum gain output.
Note: Repeat the adjustments in Items 8 and 9. Then, confirm there is no tracking error.				
10. AM AUTO STOP SENSITIVITY ADJUSTMENT	Change generator setting to 999kHz and output level to 60dBμV/m.	Set Preset STATION button to "3" position. Set to 999kHz.	Front Panel TUNED Indicator Display.	Adjust VR102 until the Indicator partly light up.

Use a screwdriver with plastic grip for all adjustments.

MW/LW Frequency Cover Range
Tuning Voltage Value at B2 (On the FM Front End)

(Table 1)

	153kHz	360kHz	522kHz	1611kHz
Minimum	0.7V	6.0V	1.0V	7.0V
Typical	0.93V	6.7V	1.3V	8.03V
Maximum	1.2V	8.0V	1.4V	9.0V

CASSETTE DECK ELECTRICAL ADJUSTMENT

BEFORE ADJUSTMENT

It the tape surface which contacts the head, the capstan, and the pinch roller, etc., is stained, it will cause untable running of the tape, wow and flutter, imperfect recording and erasing, deterioration of tonal quality, and the tape jam around the capstan, etc. Occasionally clean each part as follows;

1. Cut off power
2. Open the cassette lid.
3. Wipe the head, the capstan, and the pinch roller with a cotton swab. If they are excessively stained, clean them with the swab soaked in absolute alcohol or cleaning liquid on the market.

MEASURING INSTRUMENTS REQUIRED

- Dualtrace Oscilloscope
- AC VTVM (AC voltmeter with high impedance)
- Frequency Counter
- Signal Oscillator
- Test Tapes
  - ‡ 10kHz Test Tape (Example: TEAC MTT-114) for Azimuth Adjustment
  - ‡ 3kHz Test Tape (Example: TEAC MTT-111) for Normal Tape Speed Adjustment
  - ‡ 400Hz Test Tape (Example: TEAC MTT-150) for Playback Sensitivity Adjustment
- Test Tapes for Recording and Playback Operations
  - ‡ Normal Tape (Example: TDK AC 223)
  - ‡ CrO_2 Tape (Example: TDK AC 512)

SWITCH POSITIONS

Unless especially indicated, set each switch as follows;

- Dolby NR Switch ..... OFF
- Graphic Equalizer Controls ..... FLAT
- High Speed Switch ..... Normal
- Tape Selector Switch ..... Normal
- Function Switch ..... Tape

NORMAL/HIGH TAPE SPEED ADJUSTMENT

1. Connect the Dummy load (6Ω 60watts resistor) and the frequency counter to the speaker terminal (Left channel).
2. Load Deck 2 with a test tape (Example: TEAC MTT-111) and set it in the playback mode.
3. Adjust the potentiometer VR801 on the Mecha P.C.Board, so that the reading on the frequency counter is 3,000Hz ~ 3,030Hz.
4. Set the High Speed Switch to the High speed position, so that the reading on the frequency counter is 6,000Hz±3%.

HEAD AZIMUTH ADJUSTMENT

1. Connect the dualtrace oscilloscope and AC VTVM to the Dolby test point TS1 and TS2 (Left and Right channel) and TS3 (GND) on the MAIN P.C.Board.

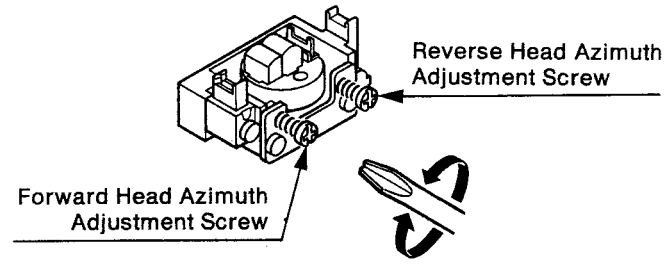
Then, set the dualtrace oscilloscope as follows:

- ‡ MODE ..... CHOP (chopped)
- ‡ SOURCE ..... INT (internal), CH1 or CH2
- ‡ SWEEP MODE ..... AUTO (automatic)

NOTE:

Adjust the field on the oscilloscope with the VOLT. ADJ. and TIME ADJ.

2. Load Deck 2 with a test tape (Example: TEAC MTT-114) and set it in the forward playback mode.
3. Adjust the forward head azimuth adjustment screw, so that the wave forms become maximum on the oscilloscope and the Right channel wave form overlaps with the Left channel one.
4. Set the unit in the reverse playback mode and adjust the wave forms as described above instructions with the reverse head azimuth adjustment screw as well as the forward.



5. Repeat the above several time.
6. Adjust Deck 1 in the same way as for Deck 2.
7. After the adjustment, secure the adjusting screw with paint or glue.

CASSETTE DECK ELECTRICAL ADJUSTMENT (Continued)

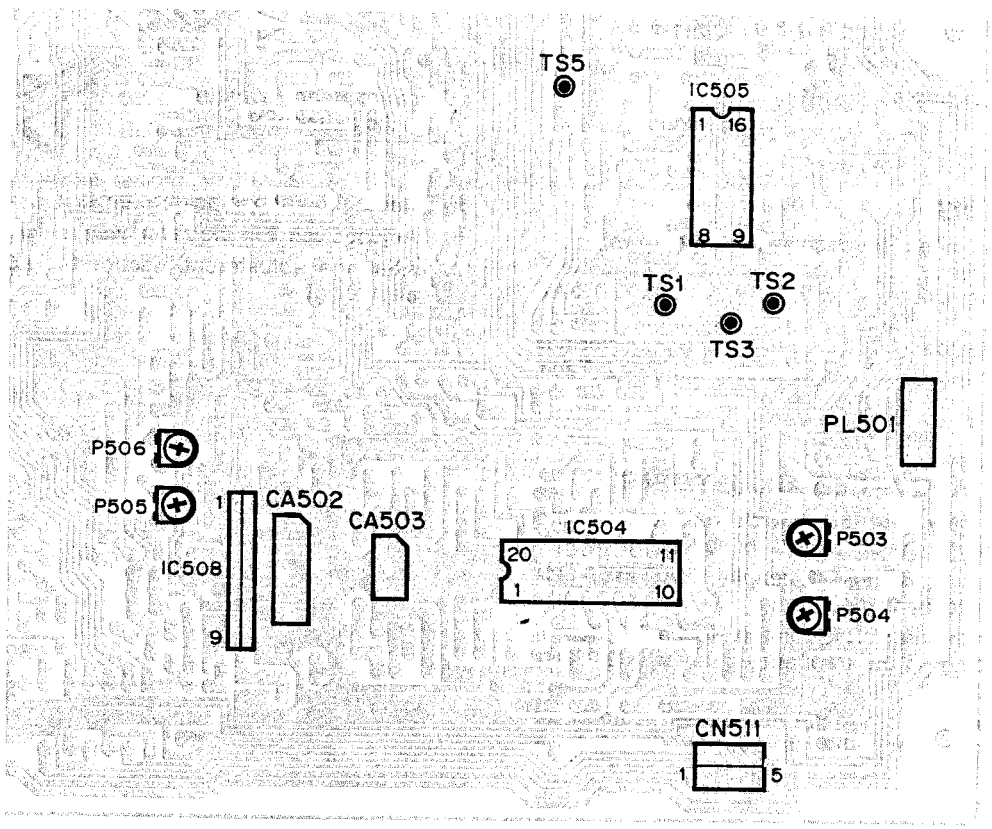
PLAYBACK SENSITIVITY ADJUSTMENT

1. Connect the oscilloscope and AC VTVM to the Dolby test point TS1 and TS2 (Left and Right channel) and TS3 (GND) on the DECK/FUNCTION P.C.Board.
2. Load Deck 2 with a test tape (Example: TEAC MTT-150) and set it in the playback mode.
3. Adjust potentiometer VR503 (Left Channel), so that the output level becomes 580mV ±0.5dB.
4. Adjust potentiometer VR504 for the Right channel by following the same procedures as described for the Left channel.

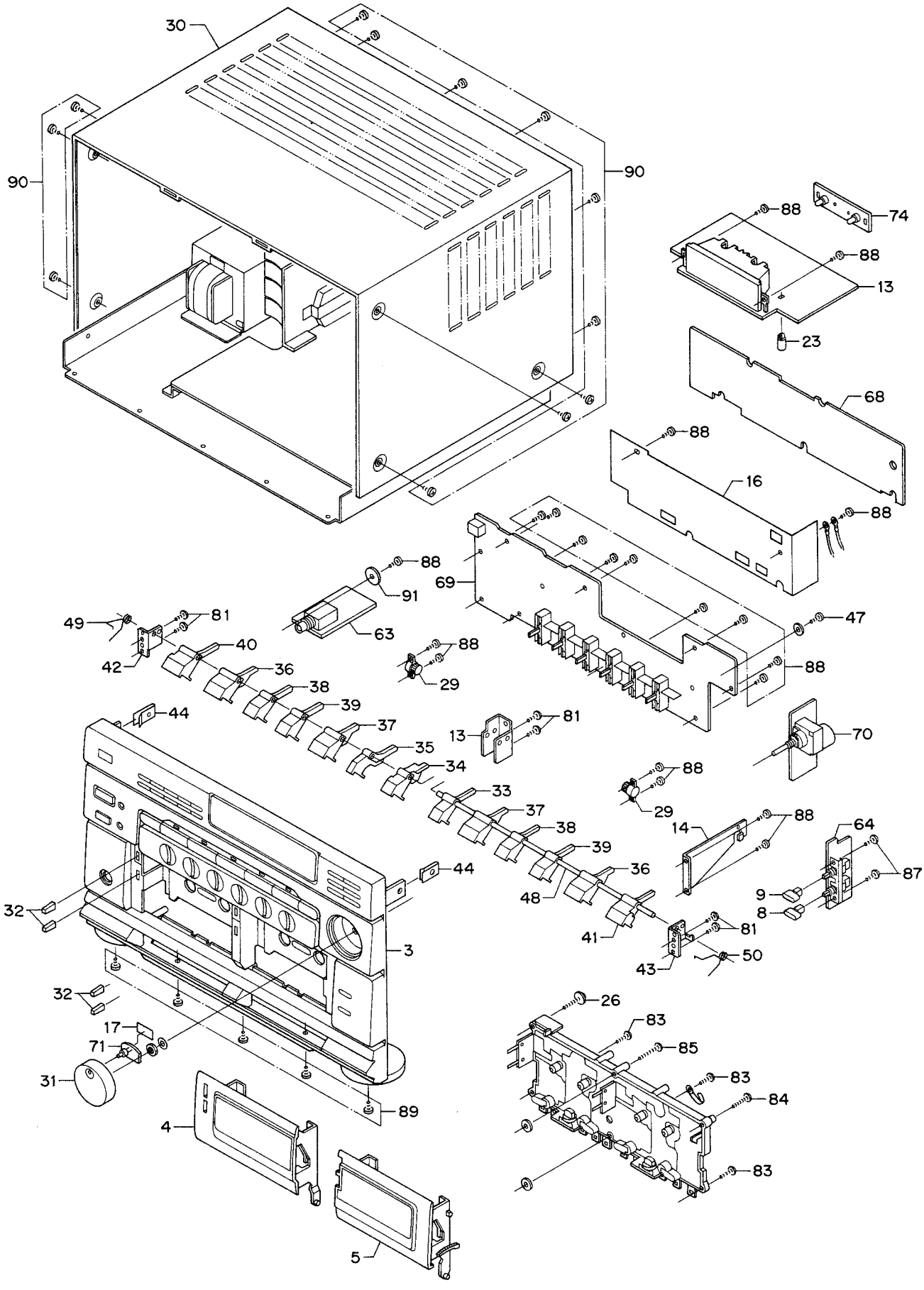
RECORDING BIAS LEVEL ADJUSTMENT (DECK2)

1. Connect the audio signal generator to the Left channel of the AUX input terminal, and the AC VTVM to the Dolby test point TS1 and TS2 (Left and Right channel) and TS3 (GND) on the MAIN P.C.Board.
2. Load Deck 2 with a normal tape (Example: TDK AC223) and set it in the recording mode.
3. Function switch to the AUX position.
4. Set the Input Level ATT so that the output level becomes 32mV and feed the signals of 1kHz and 12.5kHz from the audio signal generator into the unit. Then, record the signals on the tape.
5. Playback the recorded signals and adjust potentiometer VR505 for the Left channel, so that the difference in output of the 1kHz and 12.5kHz signals become ±1dB.
6. Adjust potentiometer VR506 for the Right channel by following the same procedures as described for the Left channel.

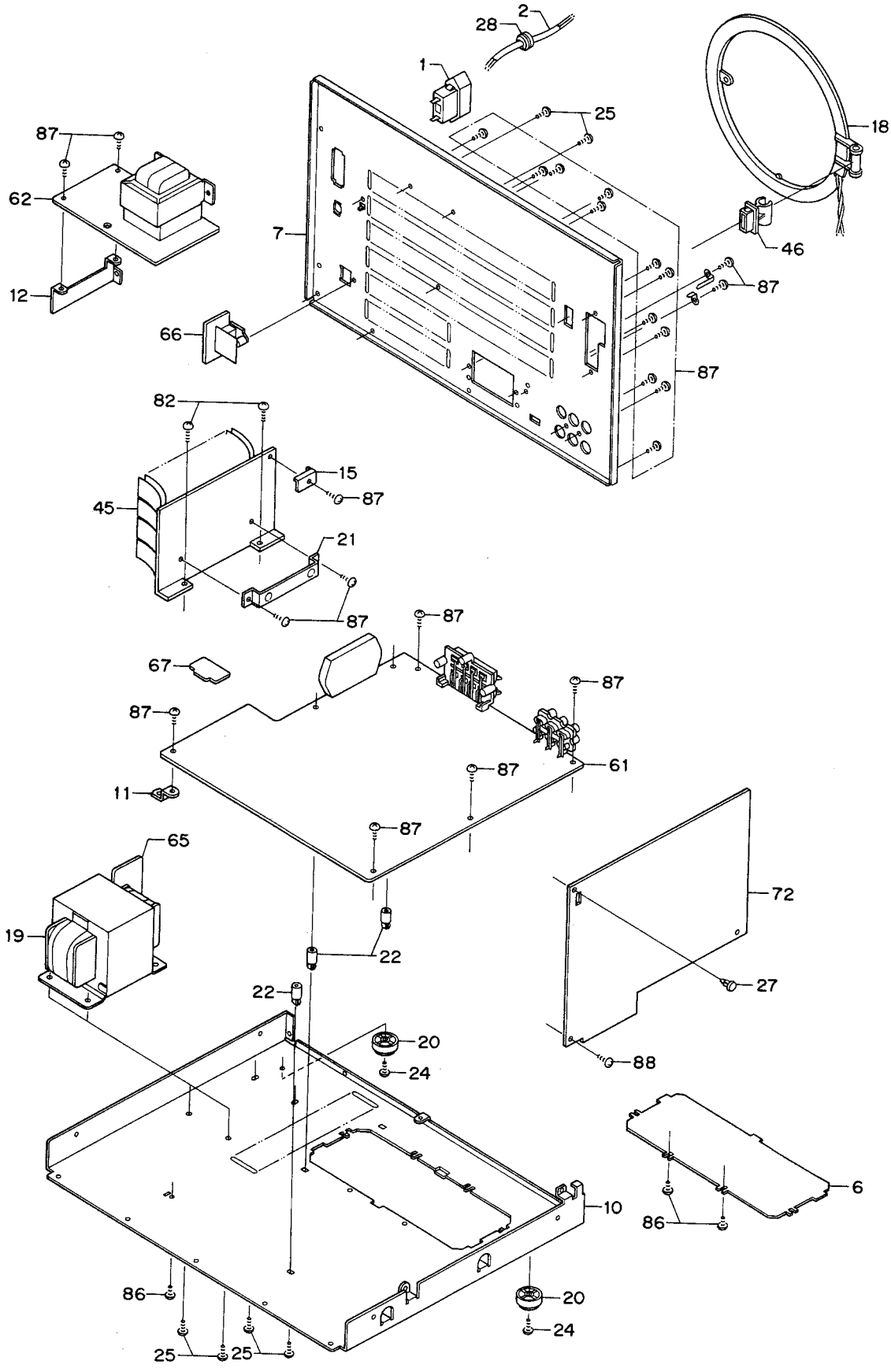
MAIN P.C.BOARD ADJUSTMENT POINTS
(TOP VIEW)



CABINET & CHASSIS EXPLODED VIEW (1)



CABINET & CHASSIS EXPLODED VIEW (2)



CABINET & CHASSIS PARTS LIST

Ref. No.		Part No.	Description	Q'ty
PACKAGE				
		620 199 0911	Inner Carton (Black)	1
		620 200 8608	Inner Carton (White)	1
		620 198 9984	Pad,Front	1
		620 198 9991	Pad,Rear	1
		620 059 3533	Pad (Roop-ANT)	1
		620 059 7333	Patching Sheet	1
		620 062 0543	Serial No. Sheet	2
or		620 152 7452	Serial No. Sheet	2
		620 148 5691	Poly Cover 100 x 250	1
		620 148 8012	Sheet Polyethylene	1
ACCESSORIES				
		620 017 4459	Connector 4P Assy (Black Only)	1
		411 123 3906	SCR TPG BIN 3X10	2
		620 200 0138	Remocon,M92	1
		620 200 0145	Instruction Manual	1
		620 038 1673	FM Antenna Assy	1
		620 057 8783	Bag Fan	1
		620 062 0543	Serial No. Sheet	1
or		620 152 7452	Serial No. Sheet	1
		620 113 5312	Stand Loop Antenna	1
or		620 113 5305	Stand Antenna	1
		620 148 4571	Poly Cover	1
		620 152 2624	Certificate Card	1
CABINET				
		403 069 8404	CERAMIC 0.01U Z 50V	2
		620 022 3492	Terminal Lug (White Only)	1
		620 201 3800	Assy,Wire,1P	1
		620 125 8110	Lug	1
1	⚠	620 017 1212	AC Socket	1
2	⚠	620 023 7550	Power Cord	1
3		620 198 5474	Assy,Cabinet,Front (Black)	1
3		620 200 8585	Assy,Cabinet,Front (White)	1
4		620 198 5450	Assy,Lid,Cassette,Left (Black)	1
4		620 200 8561	Assy,Lid,Cassette,Left (White)	1
5		620 198 5467	Assy,Lid,Cassette,Right (Black)	1
5		620 200 8578	Assy,Lid,Cassette,Right (White)	1
6		620 198 9885	Cover,Bottom	1
7		620 198 9892	Panel,Rear	1
8		620 197 8315	Knob,Dolby (Black)	1
8		620 200 8509	Knob,Dolby (White)	1
9		620 198 1650	Knob,Tape Select (Black)	1
9		620 200 8493	Knob,Tape Select (White)	1
10		620 198 9878	Chassis	1
11		620 199 0157	Bracket-E,PCB	1
12		620 199 6210	Bracket-E,Sub Trans P.C.B.	1
13		620 197 8476	Bracket-M,Spindle	1
14		620 198 5443	Bracket-M	1
15		620 199 6258	Bracket-M,Heat Sink	1
16		620 199 7903	Shield,Cover	1
17		620 203 0227	Sheet	1
18		620 199 8337	Loop Antenna,LA300B	1
19	⚠	620 200 0527	Power Trans,SEV	1
20		620 047 3873	Leg	2
21		620 048 2608	Metal Mount (IC)	1
22		620 050 4225	Mount P.C.B.	3
23		620 050 4409	Mount P.C.B.	1
24		620 051 3708	Screw Braz. HD. + M3X8	2
25		620 051 4149	Screw C-Tite 4X8 Z1	6
26		620 051 4293	Screw 3X25	1
27		620 191 2746	Rivet 3.5	1
28		620 053 2136	Bushing (Power Cord)	1
29		620 083 1789	Gear Eject Assy	2
30		620 090 8115	Cover (Black)	1
30		620 200 8615	Cover (White)	1
31		620 188 4579	Knob Volume (Black)	1
31		620 200 8592	Knob Volume (White)	1
32		620 112 0011	Knob (Mode,Direction)	4
33		620 186 4038	Knob Record (Black)	1
33		620 191 5723	Knob Record (White)	1
34		620 186 4045	Knob Dubbing (Black)	1
34		620 191 5730	Knob Dubbing (White)	1
35		620 186 4052	Knob HI-SP (Black)	1
35		620 191 5747	Knob HI-SP (White)	1
36		620 186 4069	Knob Pause (Black)	2
36		620 191 5761	Knob Pause (White)	2
37		620 188 5972	Knob Play (Black)	2
37		620 191 5754	Knob Play (White)	2
38		620 186 4076	Knob Rewind (Black)	2
38		620 191 5778	Knob Rewind (White)	2
39		620 186 4083	Knob FF (Black)	2
39		620 191 5785	Knob FF (White)	2
40		620 186 4090	Knob Stop/Eject L (Black)	1
40		620 191 5792	Knob Stop/Eject L (White)	1
41		620 186 4106	Knob Stop/Eject R (Black)	1
41		620 191 5808	Knob Stop/Eject R (White)	1
42		620 187 0022	Bracket Spindle (Left)	1
43		620 187 0039	Bracket Spindle (Right)	1
44		620 189 1263	Fix Cover	2
45		620 186 4236	Plate Heat Sink	1
46		620 122 2210	Holder Antenna	1
47		620 122 6317	Screw Washer	1
48		620 129 3500	Spindle Button	1
49		620 139 1916	Spring Lid Cassette (Left)	1
50		620 139 1923	Spring Lid Cassette (Right)	1
61		620 200 1128	Assy,PCB,Main	1
62		620 200 1135	Assy,PCB,Sub Trans	1
63		620 200 1142	Assy,PCB,Headphone	1
64		620 200 1159	Assy,PCB,Switch	1
65		620 200 1166	Assy,PCB,Trans	1
66		620 200 1173	Assy,PCB,Player	1
67		620 200 1180	Assy,PCB,Connector	1
68		620 200 1197	Assy,PCB,Control	1
69		620 200 1203	Assy,PCB,Graphic EQ.	1
70		620 200 1210	Assy,PCB,Volume	1
71		620 200 1227	Assy,PCB,Volume Indicator	1
72		620 200 2484	Assy,PCB,Tuner	1
73		620 200 2491	Assy,PCB,Control	1
74		620 200 2507	Assy,PCB,Lamp	1
81		411 020 5904	SCR S-TPG BRZ 3X10	6
82		411 020 6604	SCR S-TPG BRZ 3X14	2
83		411 020 6703	SCR S-TPG BRZ 3X16	3
84		411 020 7205	SCR S-TPG BRZ 3X25	1
85		411 020 7304	SCR S-TPG BRZ 3X30	1
86		411 020 7700	SCR S-TPG BRZ 3X6	3
87		411 020 8004	SCR S-TPG BRZ 3X8	27
88		411 021 3107	SCR S-TPG BIN 2.6X8	21
89		411 021 5705	SCR S-TPG BIN 3X6	5
90		411 021 5903	SCR S-TPG BIN 3X6 (Black)	12
90		411 098 1006	SCR S-TPG BIN 3X6 (White)	12
91		411 092 7806	WASHER Z 3.2X16X1	1

NOTES:

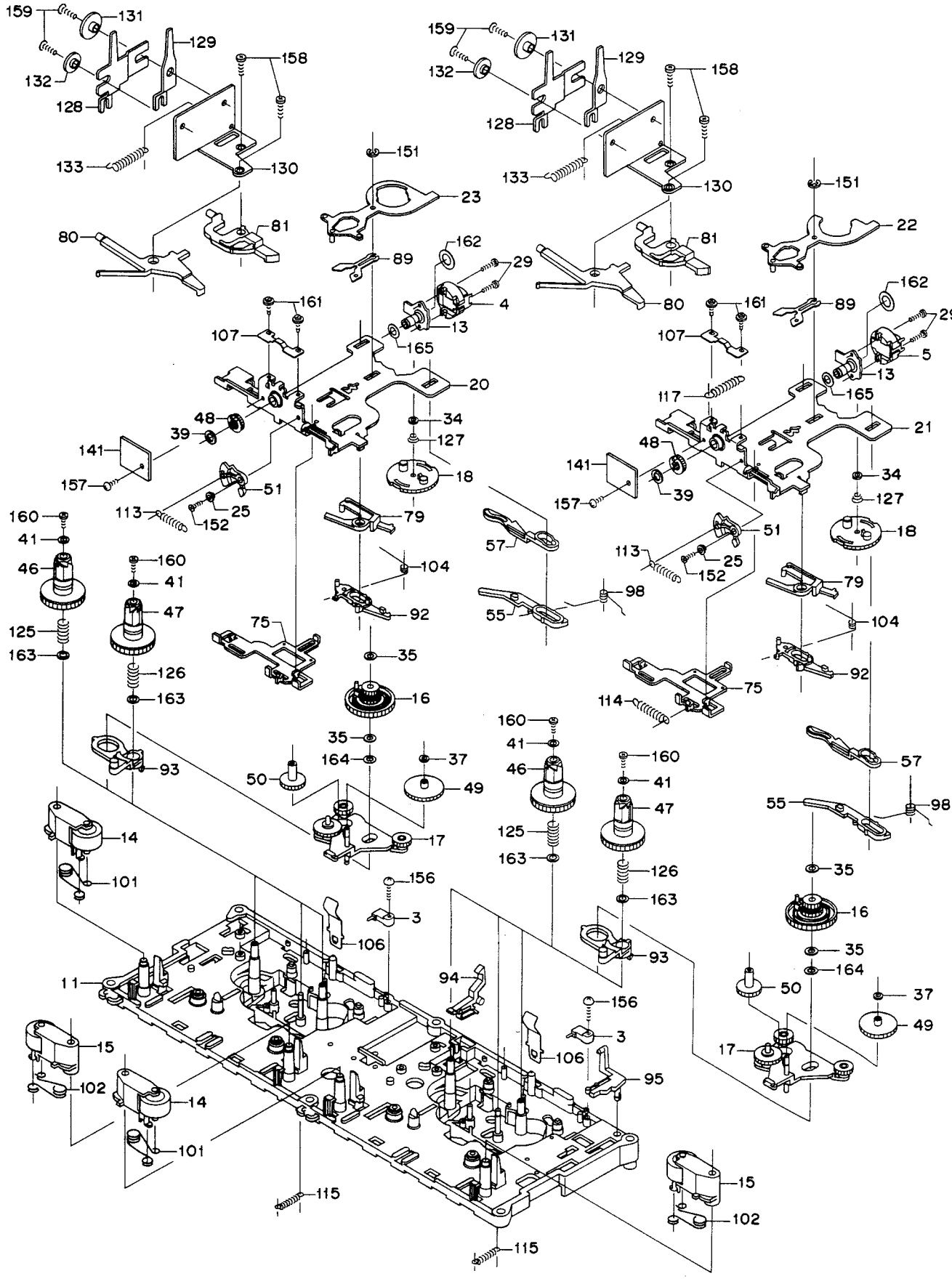
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

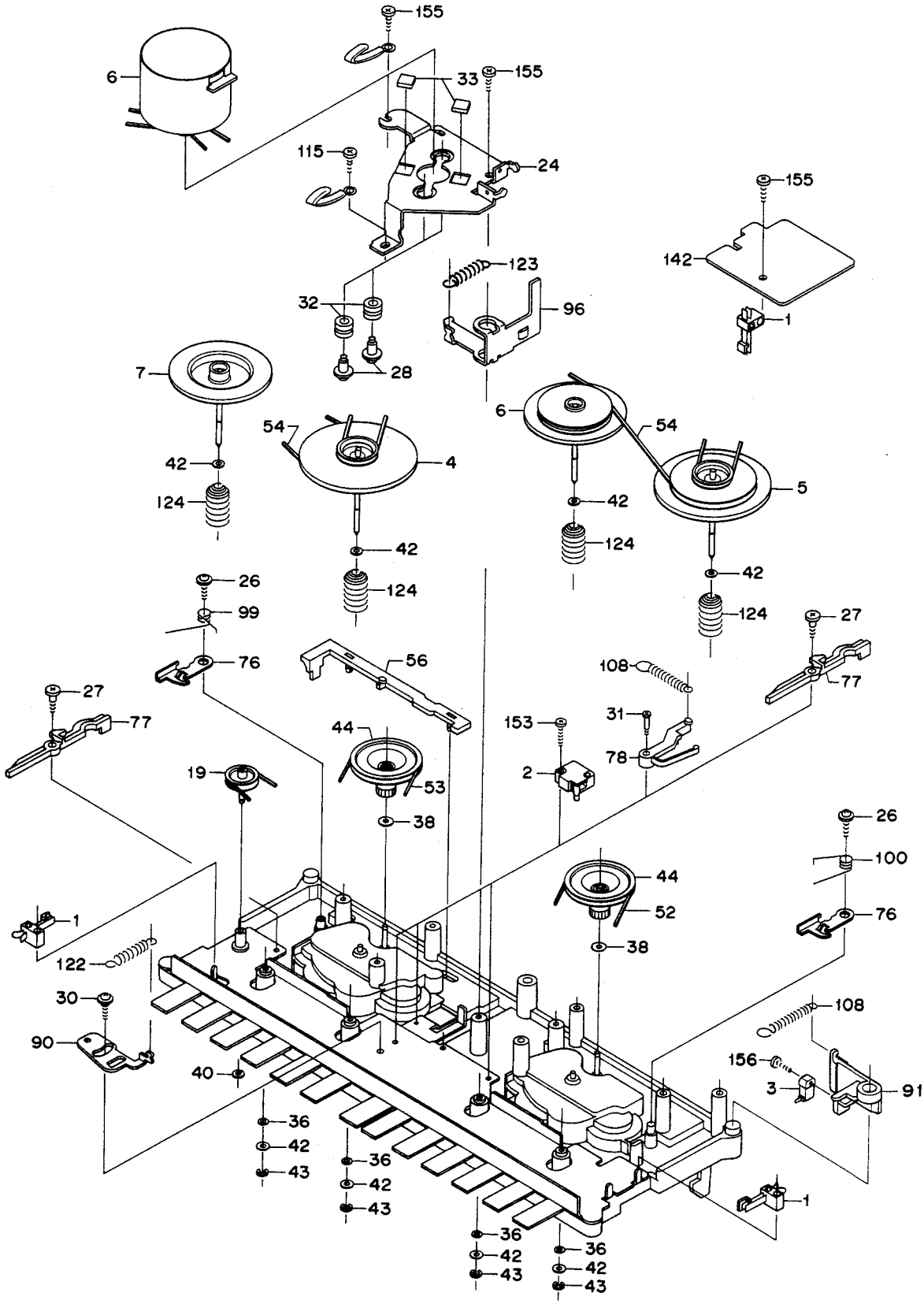
CASSETTE DECK MECHANISM EXPLODED VIEW (1)

(CHASSIS TOP)



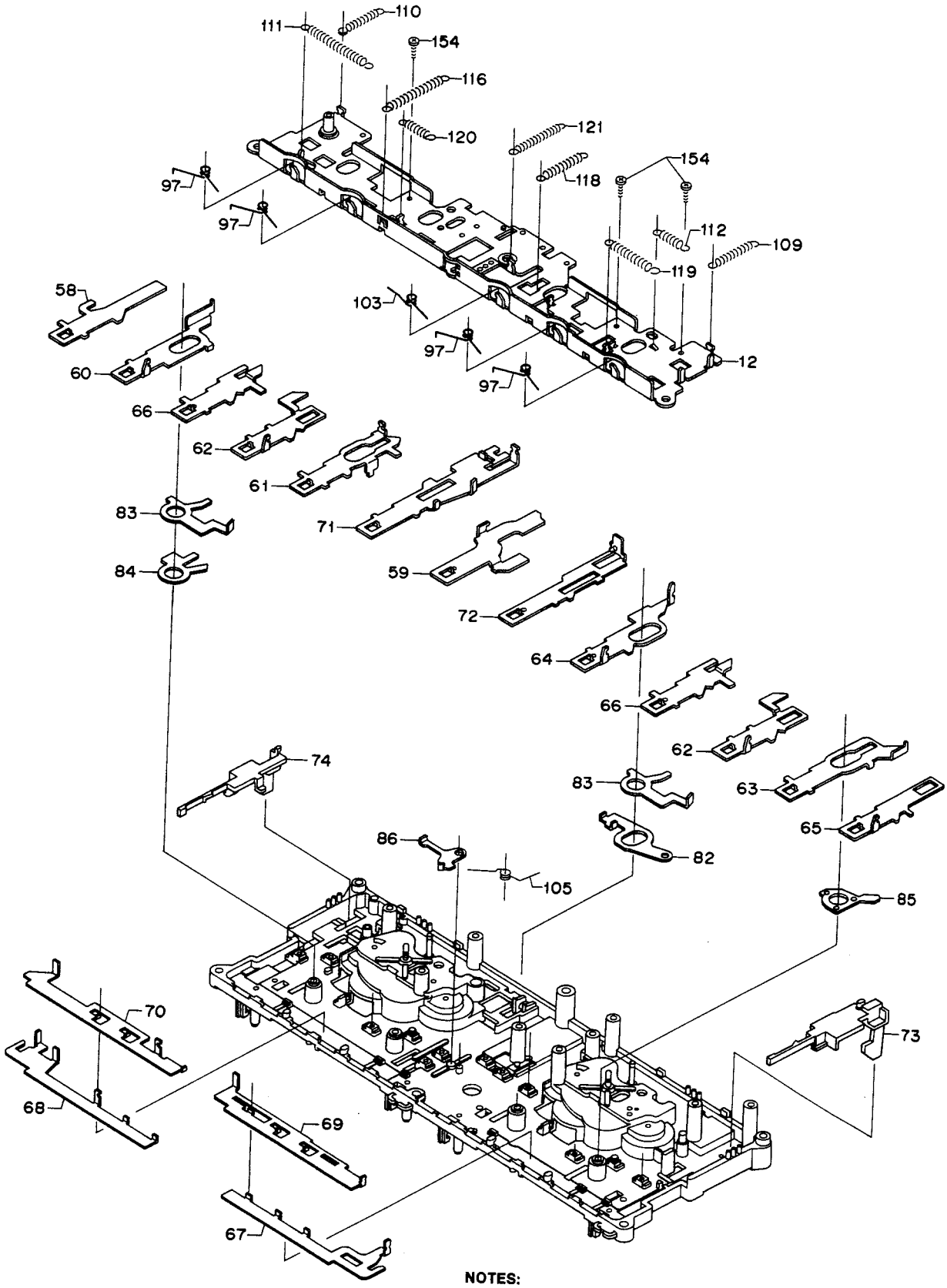
CASSETTE DECK MECHANISM EXPLODED VIEW (2)

(CHASSIS BOTTOM 1)



CASSETTE DECK MECHANISM EXPLODED VIEW (3)

(CHASSIS BOTTOM 2)



NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

CASSETTE DECK MECHANISM PARTS LIST

Ref. No.	Part No.	Description	Q'ty
MECHANISM			
	620 200 2644	Assy,Wire,2P	1
	620 200 2651	Assy,Wire,3P	1
	620 200 2668	Assy,Wire,6P	1
	620 017 5777	Connector 1P Assy [CA4]	1
1	620 016 2630	Leaf Switch (Motor Deck 1)	1
1	620 016 2630	Leaf Switch (Motor Deck 2)	1
1	620 016 2630	Leaf Switch (High Speed)	1
2	620 016 7925	Lever Switch 1-2 (Dubbing)	1
3	620 016 8922	Detector Switch 1P1T (Mute 1,2)	2
3	620 016 8922	Detector Switch 1P1T (Tape Selector)	1
4	620 023 6195	PB Rotary Head [HD1]	1
5	620 187 4051	R/P/E Rotary Head [HD2]	1
6	620 030 4221	Motor [M1]	1
7	620 197 1811	Assy,Flywheel,PB FWD	1
8	620 197 1828	Assy,Flywheel,R/P FWD	1
9	620 197 1835	Assy,Flywheel,PB REV	1
10	620 197 1842	Assy,Flywheel,R/P REV	1
11	620 081 6106	Chassis Assy	1
12	620 185 4534	Bracket Rod Assy	1
13	620 082 2893	Plate Head Assy	2
14	620 083 0607	Pinchroller Assy	2
15	620 083 0614	Pinchroller Assy	2
16	620 083 2755	Friction Assy	2
17	620 083 2816	Gear Complete	2
18	620 083 2830	Gear Power REV Assy	2
19	620 192 5920	Pulley Drive Assy	1
20	620 084 2853	Base Slide PB Assy	1
21	620 084 2860	Base Slide R/P Assy	1
22	620 085 0926	Lever Change Assy	1
23	620 085 0933	Lever Change PB Assy	1
24	620 119 2100	Bracket Motor	1
25	620 119 7532	Spacer Gear REV	2
26	620 122 7277	Screw W/Washer +M2.0X6.0	2
27	620 122 8397	Screw Tapping +2.0X6.0	2
28	620 122 9356	Screw Washer +M2.6X1.5	2
29	620 123 0550	Screw +PMS M1.6X6.0	4
30	620 123 0710	Screw +M2.0X6.5	1
31	620 123 0826	Screw M1.4 2X5	1
32	620 123 9942	Cushion Motor	2
33	620 124 5530	Cushion	2
34	620 125 2064	Washer M1.6X4.0X0.20	2
35	620 125 2163	Washer M2.1X5.0X0.13	4
36	620 125 3078	Washer M2.1X3.5X0.25	4
37	620 125 3382	Washer M1.25X4.0X0.25	2
38	620 125 3818	Washer M2.1X4.0X0.125	2
39	620 125 3849	Washer M4.2X7.0X0.13	2
40	620 125 3894	Washer M1.6X3.2X0.4	1
41	620 125 4235	Washer M3.0X4.4X0.25	4
42	620 125 4938	Washer M2.1X4.5X0.2	8
43	620 125 6666	E Ring TE-4	4
44	620 126 3749	Pulley Drive	2
46	620 126 6382	Fix Reel Take up	2
47	620 126 6399	Fix Reel Supply	2
48	620 127 8156	Gear Head	2
49	620 127 9283	Gear Forward Play	2
50	620 127 9344	Gear Rewind Relay	2
51	620 127 9351	Gear Reverse	2
52	620 128 6755	Belt Drive	1
53	620 128 6786	Belt Drive R/P	1
54	620 128 6823	Belt Wind	2
55	620 130 7238	Plate Auto Shut Off	2
56	620 130 7245	Plate Change Record	1
57	620 130 7252	Lever Sensor	2
58	620 130 7436	Rod Stop R/P	1
59	620 130 7450	Rod Dubbing	1
60	620 130 7474	Rod Pause R/P	1
61	620 130 7498	Rod Play R/P	1
62	620 130 7511	Rod Rewind	2
63	620 130 7535	Rod Pause PB	1
64	620 130 7559	Rod Play PB	1
65	620 130 7573	Rod Stop PB	1
66	620 130 7597	Rod F FWD	2
67	620 130 7603	Plate Switch Motor PB	1
68	620 130 7610	Plate Switch Motor R/P	1
69	620 130 7627	Plate Lock PB	1
70	620 130 7634	Plate Lock R/P	1
71	620 130 7672	Rod Record	1
72	620 130 7856	Rod Speed Switch	1
73	620 130 7863	Plate Lock Lid PB	1
74	620 130 7870	Plate Lock Lid R/P	1
75	620 130 7993	Plate Change	2
76	620 131 8616	Latch Pause	2
77	620 131 9439	Lever Auto Shut Off	2
78	620 131 9446	Lever Change Record	1
79	620 131 9453	Lever Change Auto Shut Off	2
80	620 131 9460	Lever Change REV	2
81	620 131 9477	Lever Mode Change	2
82	620 131 9538	Lever Play	1
83	620 131 9545	Lever Cue Reverse	2
84	620 131 9552	Lever Pause R/P	1
85	620 131 9569	Lever Pause PB	1
86	620 131 9576	Lever Stopper Record	1
89	620 131 9583	Lever Change Take up	2
90	620 131 9606	Lever Dubbing	1
91	620 185 5777	Lever Switch PB	1
92	620 132 5744	Lever Reverse	2
93	620 132 5751	Lever Arm Gear	2
94	620 136 3852	Interlock Lever	1
95	620 136 4521	Lever Reverse Record	1
96	620 136 4545	Lever R/P Switch	1
97	620 137 8979	Spring Rod	4
98	620 137 9600	Spring Lever Sensor	2
99	620 137 9617	Spring Pause Latch Right	1
100	620 137 9624	Spring Pause Latch P	1
101	620 137 9631	Spring Pinch Roller REV	2
102	620 137 9648	Spring Pinch Roller FWD	2
103	620 137 9655	Spring Rod Play	1
104	620 137 9662	Spring Change Auto Shut Off	2
105	620 188 0519	Spring Stopper Record	1
106	620 138 4963	Spring Cassette	2
107	620 138 6769	Spring Azimuth	2
108	620 139 1527	Spring Lever Switch R/P	2
109	620 139 1701	Spring PL Lock Lid PB	1
110	620 139 1718	Spring PL Lock Lid R/P	1
111	620 139 1725	Spring PL Motor Switch R/P	1
112	620 139 1732	Spring PL Motor Switch PB	1
113	620 139 1749	Spring Gear REV	2
114	620 139 1756	Spring Plate Change	1
115	620 139 1763	Spring Arm Gear	2
116	620 139 1770	Spring Rod Play	1
117	620 139 1787	Spring Base Slide R/P	1
118	620 139 1794	Spring Base Slide PB	1
119	620 139 1800	Spring Plate Lock PB	1
120	620 139 1817	Spring Plate Lock R/P	1
121	620 139 1831	Spring Speed Switch	1
122	620 139 1855	Spring Dubbing	1
123	620 190 0163	Spring Lever Record	1
124	620 139 4467	Spring Flywheel	4
125	620 139 4559	Spring REV Reel	2
126	620 139 4566	Spring FWD Reel	2
127	620 139 4696	Spring	2
128	620 117 6636	Metal Mount Direct	2
129	620 117 6643	Metal Mount Mode	2
130	620 117 6650	Metal Mount Levers	2
131	620 119 7648	Spacer	2
132	620 119 7662	Spacer	2
133	620 139 2036	Spring Direction	2
141	620 012 0821	PCB Head	2
142	620 200 1234	Assy,PCB,Mecha	1
151	411 015 7906	RING E 1.5	2
152	411 017 4804	SCR FLT PCS 1.7X4	2
153	411 021 0205	SCR S-TPG BIN 2X12	1
154	411 021 0809	SCR S-TPG BIN 2X6	3
155	411 021 3107	SCR S-TPG BIN 2.6X8	4
156	411 022 8101	SCR S-TPG PAN 2X7	3
157	411 039 0105	SCR PAN 2X3	2
158	411 098 5202	SCR S-TPG PAN 2X5	4
159	411 033 9302	SCR FLT 2.6X5	4
160	412 025 9201	SPECIAL SCREW	4
161	412 022 9808	SPECIAL SCREW	4
162	412 022 4506	SPECIAL WASHER	2
163	412 023 2303	SPECIAL WASHER	4
164	412 023 2402	SPECIAL WASHER	2
165	412 026 0207	SPECIAL WASHER	2

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
SY,PCB,MAIN			
	620 200 1128	Assy,PCB,Main	1
	620 182 8795	Pin Jack 6P ALL BK	1
	620 187 4044	Push Terminal 8P	1
	411 020 7700	SCR S-TPG BRZ 3X6	4
	620 202 3434	Fuse Holder,Taping	10
	620 031 4763	Wire Wrap Terminal	5
	620 118 2125	Plate Shield	1
	620 186 7275	Plate Earth	3
	620 053 9012	Plate Heat Sink	1
	620 053 9012	Plate Heat Sink	1
J501	620 022 0545	Plug 2P	1
J502	620 182 8948	Plug 6P	1
J503	620 182 8955	Plug 3P	1
J511	620 182 8955	Plug 3P	1
W501	620 189 5551	Socket Jumper 7P	1
W502	620 189 5551	Socket Jumper 7P	1
W503	620 189 5544	Socket Jumper 6P	1
W511	620 017 5036	Socket Jumper 5P	1
F501 ⚠	423 006 8700	FUSE 250V T3.15A	1
F502 ⚠	423 006 8700	FUSE 250V T3.15A	1
F503 ⚠	423 007 2103	FUSE 250V T4.0A	1
F504 ⚠	423 007 2103	FUSE 250V T4.0A	1
F505 ⚠	423 005 0507	FUSE 250V T1.0A	1
CN501	620 200 2606	Socket,Holder,9P	1
CN511	620 200 2637	Socket,Holder,5P	1
CN521	620 200 2637	Socket,Holder,5P	1
CN531	620 200 2637	Socket,Holder,5P	1
L501	620 026 5478	RF Filter	1
	620 026 5447	RF Filter	1
L502	620 026 5478	RF Filter	1
	620 026 5447	RF Filter	1
L501	620 022 1597	Plug 5P	1
L502	620 021 6555	Plug 4P	1
VR503	620 006 1322	Semi Fixed 47KB	1
VR504	620 006 1322	Semi Fixed 47KB	1
VR505	620 006 1353	Potentiometer 100KB	1
VR506	620 006 1353	Potentiometer 100KB	1
L503	620 200 1494	Coil,Ferrite,Dolby	1
F	620 029 5864	Filter Dolby	1
L504	620 200 1494	Coil,Ferrite,Dolby	1
F	620 029 5864	Filter Dolby	1
L505	620 200 1470	Inductor,Ferrite,6.8/2.2M	1
F	620 027 1899	Coil,6.8MH/2.2MH.	1
L506	620 200 1470	Inductor,Ferrite,6.8/2.2M	1
F	620 027 1899	Coil,6.8MH/2.2MH.	1
L507	620 201 3855	Inductor,Ferrite,105K	1
F	620 026 4648	Bias Trap 2700 Shield	1
L508	620 201 3855	Inductor,Ferrite,105K	1
F	620 026 4648	Bias Trap 2700 Shield	1
L509	620 191 6058	Bias OSC Coil	1
F	620 028 8989	Bias OSC Coil	1
IC501	409 018 4503	IC LA6458DS	1
IC502	409 109 5105	IC LC7821	1
IC503	409 018 4503	IC LA6458DS	1
IC504	409 121 8702	IC LA3246	1
IC505	409 199 1209	IC HA12136A	1
IC506	409 018 4503	IC LA6458DS	1
IC507	409 019 7503	IC LB1214	1
IC508	409 145 8405	IC UPC1330HA	1
IC509	409 207 1108	IC MLC4001B	1
IC510	409 047 0903	IC STK4152MK2	1
IC511	409 078 1504	IC L78M15ML	1
IC	409 178 4108	IC NJM78M15FA	1
IC512	409 178 4207	IC NJM79M15FA	1
IC513	409 078 1405	IC L78M12ML	1
IC	409 140 0503	IC NJM78M12FA	1
Q501	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q502	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q503	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q509	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q510	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q511	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
D501	407 003 8000	DIODE DBA40C-K20	1
D502	407 004 9105	DIODE DSF10C-BT	1
IC	407 096 5504	DIODE RL1N4003-E	1
D503	407 004 9105	DIODE DSF10C-BT	1
IC	407 096 5504	DIODE RL1N4003-E	1
D504	407 004 9105	DIODE DSF10C-BT	1
IC	407 096 5504	DIODE RL1N4003-E	1
D505	407 004 9105	DIODE DSF10C-BT	1
IC	407 096 5504	DIODE RL1N4003-E	1
D506	407 049 6305	ZENER DIODE GZA12Y-BT	1
D510	407 008 0405	DIODE GMB01-BT	1
Q512	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q513	405 018 2600	TR 2SC3400-AC	1
IC	405 035 0108	TR DTC124-XS-AUTO	1
Q514	405 018 0002	TR 2SC3331-S	1
IC	405 018 0101	TR 2SC3331-T	1
Q515	405 018 0002	TR 2SC3331-S	1
IC	405 018 0101	TR 2SC3331-T	1
Q516	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q517	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q518	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q519	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q520	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q521	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q522	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q523	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q524	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q525	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q526	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q527	405 018 2600	TR 2SC3400-AC	1
IC	405 035 0108	TR DTC124-XS-AUTO	1
Q528	405 003 7702	TR 2SA1346-AC	1
IC	405 034 7900	TR DTA124-XS-AUTO	1
Q529	405 018 2600	TR 2SC3400-AC	1
IC	405 035 0108	TR DTC124-XS-AUTO	1
Q530	405 018 7209	TR 2SC3708-S	1
IC	405 018 7308	TR 2SC3708-T	1
Q531	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q532	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q533	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q534	405 003 7702	TR 2SA1346-AC	1
IC	405 034 7900	TR DTA124-XS-AUTO	1
Q535	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q536	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q537	405 035 7107	TR 2SD1913-R	1
IC	405 035 7206	TR 2SD1913-S	1
IC	405 022 5000	TR 2SD1406-Y	1
IC	405 022 4904	TR 2SD1406-GR	1
IC	405 022 7004	TR 2SD1666-R	1
IC	405 022 7202	TR 2SD1666-S	1
Q538	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q539	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q542	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1
Q543	405 003 7702	TR 2SA1346-AC	1
IC	405 034 7900	TR DTA124-XS-AUTO	1
Q544	405 003 7702	TR 2SA1346-AC	1
IC	405 034 7900	TR DTA124-XS-AUTO	1
Q545	405 019 2708	TR 2SC536-F-NP-AA	1
IC	405 019 3804	TR 2SC536-G-NP-AA	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
D511	407 008 0405	DIODE GMB01-BT	1
D512	407 008 0405	DIODE GMB01-BT	1
D513	407 008 0405	DIODE GMB01-BT	1
D514	407 008 0405	DIODE GMB01-BT	1
D515	407 008 0405	DIODE GMB01-BT	1
D516	407 008 0405	DIODE GMB01-BT	1
D517	407 008 0405	DIODE GMB01-BT	1
D518	407 008 0405	DIODE GMB01-BT	1
D519	407 008 0405	DIODE GMB01-BT	1
D520	407 005 3805	DIODE DS442-BT	1
D521	407 008 0405	DIODE GMB01-BT	1
D522	407 008 0405	DIODE GMB01-BT	1
D523	407 008 0405	DIODE GMB01-BT	1
D524	407 008 0405	DIODE GMB01-BT	1
D525	407 008 0405	DIODE GMB01-BT	1
D526	407 008 0405	DIODE GMB01-BT	1
D527	407 008 0405	DIODE GMB01-BT	1
D528	407 008 0405	DIODE GMB01-BT	1
D529	407 008 0405	DIODE GMB01-BT	1
D530	407 008 0405	DIODE GMB01-BT	1
D531	407 008 0405	DIODE GMB01-BT	1
D532	407 008 0405	DIODE GMB01-BT	1
C501	403 018 8509	CERAMIC 220P K 50V	1
C502	403 018 8509	CERAMIC 220P K 50V	1
C503	403 018 8509	CERAMIC 220P K 50V	1
C504	403 018 8509	CERAMIC 220P K 50V	1
C505	403 018 8509	CERAMIC 220P K 50V	1
C506	403 018 8509	CERAMIC 220P K 50V	1
C507	403 072 2703	CERAMIC 0.022U Z 50V	1
C508	403 072 2703	CERAMIC 0.022U Z 50V	1
C509	403 051 2106	ELECT 4.7U M 50V	1
C510	403 051 2106	ELECT 4.7U M 50V	1
C511	403 026 8201	CERAMIC 470P K 50V	1
C512	403 026 8201	CERAMIC 470P K 50V	1
C513	403 018 8509	CERAMIC 220P K 50V	1
C514	403 018 8509	CERAMIC 220P K 50V	1
C515	403 018 8509	CERAMIC 220P K 50V	1
C516	403 018 8509	CERAMIC 220P K 50V	1
C517	403 044 0300	ELECT 47U M 16V	1
C518	403 044 0300	ELECT 47U M 16V	1
C519	403 058 9603	POLYESTER 0.018U J 50V	1
C520	403 058 9603	POLYESTER 0.018U J 50V	1
C521	403 061 7801	POLYESTER 4700P J 50V	1
C522	403 061 7801	POLYESTER 4700P J 50V	1
C523	403 049 1708	ELECT 1U M 50V	1
C524	403 049 1708	ELECT 1U M 50V	1
C525	403 044 0300	ELECT 47U M 16V	1
C526	403 044 0300	ELECT 47U M 16V	1
C527	403 009 8105	CERAMIC 100P K 50V	1
C528	403 009 8105	CERAMIC 100P K 50V	1
C529	403 009 8105	CERAMIC 100P K 50V	1
C530	403 009 8105	CERAMIC 100P K 50V	1
C531	403 051 2106	ELECT 4.7U M 50V	1
C532	403 051 2106	ELECT 4.7U M 50V	1
C533	403 018 8509	CERAMIC 220P K 50V	1
C534	403 018 8509	CERAMIC 220P K 50V	1
C535	403 018 8509	CERAMIC 220P K 50V	1
C536	403 018 8509	CERAMIC 220P K 50V	1
C537	403 049 5508	ELECT 10U M 50V	1
C538	403 049 5508	ELECT 10U M 50V	1
C539	403 049 5508	ELECT 10U M 50V	1
C540	403 049 5508	ELECT 10U M 50V	1
C541	403 049 1708	ELECT 1U M 50V	1
C542	403 031 2805	CERAMIC 680P K 50V	1
C543	403 031 2805	CERAMIC 680P K 50V	1
C544	403 020 6203	CERAMIC 270P K 50V	1
C545	403 020 6203	CERAMIC 270P K 50V	1
C546	403 051 2106	ELECT 4.7U M 50V	1
C547	403 051 2106	ELECT 4.7U M 50V	1
C548	403 044 0300	ELECT 47U M 16V	1
C549	403 044 0300	ELECT 47U M 16V	1
C550	403 057 0106	POLYESTER 0.01U J 50V	1
C551	403 057 0106	POLYESTER 0.01U J 50V	1
C552	403 060 2005	POLYESTER 0.027U J 50V	1
C553	403 060 2005	POLYESTER 0.027U J 50V	1
C554	403 049 5508	ELECT 10U M 50V	1
C555	403 049 5508	ELECT 10U M 50V	1
C556	403 050 3708	ELECT 22U M 50V	1
C557	403 050 1308	ELECT 2.2U M 50V	1
C558	403 050 1308	ELECT 2.2U M 50V	1
C559	403 042 3600	ELECT 100U M 16V	1
C560	403 042 3600	ELECT 100U M 16V	1
C561	403 050 1308	ELECT 2.2U M 50V	1
C562	403 026 8201	CERAMIC 470P K 50V	1
C563	403 026 8201	CERAMIC 470P K 50V	1
C564	403 049 1708	ELECT 1U M 50V	1
C565	403 049 1708	ELECT 1U M 50V	1
C566	403 051 2106	ELECT 4.7U M 50V	1
C567	403 051 2106	ELECT 4.7U M 50V	1
C568	403 051 2106	ELECT 4.7U M 50V	1
C569	403 051 2106	ELECT 4.7U M 50V	1
C570	403 067 6709	MT-COMPO 0.22U J 50V	1
C571	403 067 6709	MT-COMPO 0.22U J 50V	1
C572	403 051 2106	ELECT 4.7U M 50V	1
C573	403 051 2106	ELECT 4.7U M 50V	1
C574	403 060 1008	POLYESTER 2700P K 50V	1
C575	403 060 1008	POLYESTER 2700P K 50V	1
C576	403 049 5508	ELECT 10U M 50V	1
C577	403 049 5508	ELECT 10U M 50V	1
C578	403 009 8105	CERAMIC 100P K 50V	1
C579	403 009 8105	CERAMIC 100P K 50V	1
C580	403 051 2106	ELECT 4.7U M 50V	1
C581	403 051 2106	ELECT 4.7U M 50V	1
C582	403 042 3600	ELECT 100U M 16V	1
C583	403 042 3600	ELECT 100U M 16V	1
C584	403 049 1708	ELECT 1U M 50V	1
C585	403 049 5508	ELECT 10U M 50V	1
C586	403 039 7901	ELECT 100U M 10V	1
C587	403 031 2805	CERAMIC 680P K 50V	1
C588	403 031 2805	CERAMIC 680P K 50V	1
C589	403 051 2106	ELECT 4.7U M 50V	1
C590	403 051 2106	ELECT 4.7U M 50V	1
C591	403 009 8105	CERAMIC 100P K 50V	1
C592	403 009 8105	CERAMIC 100P K 50V	1
C593	403 080 8308	POLYPRO 0.012U J 100V	1
C594	403 059 5208	POLYESTER 0.022U J 50V	1
C595	403 057 0106	POLYESTER 0.01U J 50V	1
C596	403 051 2106	ELECT 4.7U M 50V	1
C597	403 049 5508	ELECT 10U M 50V	1
C598	403 051 2106	ELECT 4.7U M 50V	1
C599	403 026 8201	CERAMIC 470P K 50V	1
C600	403 026 8201	CERAMIC 470P K 50V	1
C601	403 049 5508	ELECT 10U M 50V	1
C602	403 049 5508	ELECT 10U M 50V	1
C603	403 048 3208	ELECT 0.22U M 50V	1
C604	403 048 3208	ELECT 0.22U M 50V	1
C605	403 050 3708	ELECT 22U M 50V	1
C606	403 050 3708	ELECT 22U M 50V	1
C607	403 058 2901	POLYESTER 0.015U J 50V	1
C608	403 058 2901	POLYESTER 0.015U J 50V	1
C609	403 057 7204	POLYESTER 0.012U J 50V	1
C610	403 057 7204	POLYESTER 0.012U J 50V	1
C611	403 058 2901	POLYESTER 0.015U J 50V	1
C612	403 058 2901	POLYESTER 0.015U J 50V	1
C613	403 049 1708	ELECT 1U M 50V	1
C614	403 049 1708	ELECT 1U M 50V	1
C615	403 018 8509	CERAMIC 220P K 50V	1
C616	403 018 8509	CERAMIC 220P K 50V	1
C617	403 050 3708	ELECT 22U M 50V	1
C618	403 042 3600	ELECT 100U M 16V	1
C619	403 072 2703	CERAMIC 0.022U Z 50V	1
C620	403 048 7701	ELECT 0.47U M 50V	1
C621	403 049 1708	ELECT 1U M 50V	1
C622	403 049 1708	ELECT 1U M 50V	1
C623	403 049 5508	ELECT 10U M 50V	1
C624	403 049 1708	ELECT 1U M 50V	1
C625	403 049 1708	ELECT 1U M 50V	1
C626	403 049 5508	ELECT 10U M 50V	1
C627	403 049 5508	ELECT 10U M 50V	1
C628	403 050 1308	ELECT 2.2U M 50V	1
C629	403 050 1308	ELECT 2.2U M 50V	1
C630	403 044 0300	ELECT 47U M 16V	1
C631	403 050 1308	ELECT 2.2U M 50V	1
C632	403 050 1308	ELECT 2.2U M 50V	1
C633	403 026 8201	CERAMIC 470P K 50V	1
C634	403 026 8201	CERAMIC 470P K 50V	1
C635	403 018 8509	CERAMIC 220P K 50V	1
C636	403 018 8509	CERAMIC 220P K 50V	1

P.C.BOARD PARTS LIST (Continued)

f.	Part No.	Description	Q'ty
37	403 039 7901	ELECT 100U M 10V	1
38	403 039 7901	ELECT 100U M 10V	1
39	403 051 3905	ELECT 47U M 50V	1
40	403 051 3905	ELECT 47U M 50V	1
41	403 057 3602	POLYESTER 0.1U K 50V	1
42	403 057 3602	POLYESTER 0.1U K 50V	1
43	403 062 9309	POLYESTER 6800P J 50V	1
44	403 062 9309	POLYESTER 6800P J 50V	1
45	403 069 4000	CERAMIC 1000P Z 50V	1
46	403 069 4000	CERAMIC 1000P Z 50V	1
47	403 069 8404	CERAMIC 0.01U Z 50V	1
48	403 069 8404	CERAMIC 0.01U Z 50V	1
49	403 049 5508	ELECT 10U M 50V	1
50	403 049 5508	ELECT 10U M 50V	1
51	403 049 7304	ELECT 100U M 50V	1
52	403 097 6700	ELECT 330U M 50V	1
53	404 012 5600	ELECT 3300U M 40V	1
54	404 012 5600	ELECT 3300U M 40V	1
55	404 012 7000	CERAMIC 0.01U P 500V	1
56	404 012 7000	CERAMIC 0.01U P 500V	1
57	404 012 7000	CERAMIC 0.01U P 500V	1
58	404 012 7000	CERAMIC 0.01U P 500V	1
59	404 012 7000	CERAMIC 0.01U P 500V	1
60	404 012 7000	CERAMIC 0.01U P 500V	1
61	404 012 7000	CERAMIC 0.01U P 500V	1
62	404 012 7000	CERAMIC 0.01U P 500V	1
63	403 046 0605	ELECT 2200U M 25V	1
64	403 042 3600	ELECT 100U M 16V	1
65	403 042 3600	ELECT 100U M 16V	1
66	403 049 5508	ELECT 10U M 50V	1
67	403 049 5508	ELECT 10U M 50V	1
68	403 049 5508	ELECT 10U M 50V	1
69	403 006 4209	CERAMIC 1P C 50V	1
70	403 006 4209	CERAMIC 1P C 50V	1
71	403 049 1708	ELECT 1U M 50V	1
72	403 044 0300	ELECT 47U M 16V	1
73	403 050 3708	ELECT 22U M 50V	1
74	403 071 6207	CERAMIC 220P K 50V	1
75	403 071 6207	CERAMIC 220P K 50V	1
76	403 069 8404	CERAMIC 0.01U Z 50V	1
77	403 069 8404	CERAMIC 0.01U Z 50V	1
78	403 072 2703	CERAMIC 0.022U Z 50V	1
01	401 025 8208	CARBON 22K JA 1/6W	1
02	401 025 8208	CARBON 22K JA 1/6W	1
03	401 027 0309	CARBON 47K JA 1/6W	1
04	401 027 0309	CARBON 47K JA 1/6W	1
05	401 024 7004	CARBON 1K JA 1/6W	1
06	401 024 7004	CARBON 1K JA 1/6W	1
07	401 024 7707	CARBON 100K JA 1/6W	1
08	401 024 7707	CARBON 100K JA 1/6W	1
09	401 025 7805	CARBON 2.2K JA 1/6W	1
10	401 025 7805	CARBON 2.2K JA 1/6W	1
11	401 024 7707	CARBON 100K JA 1/6W	1
12	401 024 7707	CARBON 100K JA 1/6W	1
13	401 024 7707	CARBON 100K JA 1/6W	1
14	401 024 7707	CARBON 100K JA 1/6W	1
15	401 026 0607	CARBON 270 JA 1/6W	1
16	401 026 0607	CARBON 270 JA 1/6W	1
17	401 025 8703	CARBON 220K JA 1/6W	1
18	401 025 8703	CARBON 220K JA 1/6W	1
19	401 025 1902	CARBON 15K JA 1/6W	1
20	401 025 1902	CARBON 15K JA 1/6W	1
21	401 024 7707	CARBON 100K JA 1/6W	1
22	401 024 7707	CARBON 100K JA 1/6W	1
23	401 016 2604	CARBON 220 JA 1/4W	1
24	401 016 2604	CARBON 220 JA 1/4W	1
25	401 024 7707	CARBON 100K JA 1/6W	1
26	401 024 7707	CARBON 100K JA 1/6W	1
27	401 024 7707	CARBON 100K JA 1/6W	1
28	401 024 7707	CARBON 100K JA 1/6W	1
29	401 016 2604	CARBON 220 JA 1/4W	1
30	401 016 2604	CARBON 220 JA 1/4W	1
31	401 024 7400	CARBON 10K JA 1/6W	1
32	401 024 7707	CARBON 100K JA 1/6W	1
33	401 024 7707	CARBON 100K JA 1/6W	1
34	401 024 7400	CARBON 10K JA 1/6W	1
35	401 024 7400	CARBON 10K JA 1/6W	1
36	401 024 9008	CARBON 120 JA 1/6W	1
37	401 024 9008	CARBON 120 JA 1/6W	1

Ref. No.	Part No.	Description	Q'ty
R538	401 024 9701	CARBON 12K JA 1/6W	1
R539	401 024 9701	CARBON 12K JA 1/6W	1
R540	401 025 4606	CARBON 18K JA 1/6W	1
R541	401 025 4606	CARBON 18K JA 1/6W	1
R542	401 025 7805	CARBON 2.2K JA 1/6W	1
R543	401 025 7805	CARBON 2.2K JA 1/6W	1
R544	401 026 1000	CARBON 2.7K JA 1/6W	1
R545	401 026 1000	CARBON 2.7K JA 1/6W	1
R546	401 024 7400	CARBON 10K JA 1/6W	1
R547	401 024 7400	CARBON 10K JA 1/6W	1
R548	401 027 0507	CARBON 470K JA 1/6W	1
R549	401 022 4104	CARBON 68K JA 1/4W	1
R550	401 027 0507	CARBON 470K JA 1/6W	1
R551	401 022 4104	CARBON 68K JA 1/4W	1
R552	401 016 2604	CARBON 220 JA 1/4W	1
R553	401 027 0507	CARBON 470K JA 1/6W	1
R554	401 018 4903	CARBON 33K JA 1/4W	1
R561	401 024 7400	CARBON 10K JA 1/6W	1
R562	401 024 7400	CARBON 10K JA 1/6W	1
R563	401 026 9907	CARBON 4.7K JA 1/6W	1
R564	401 026 9907	CARBON 4.7K JA 1/6W	1
R565	401 027 5502	CARBON 6.8K JA 1/6W	1
R566	401 027 5502	CARBON 6.8K JA 1/6W	1
R567	401 012 7009	CARBON 10K JA 1/4W	1
R568	401 012 7009	CARBON 10K JA 1/4W	1
R569	401 027 5502	CARBON 6.8K JA 1/6W	1
R570	401 027 5502	CARBON 6.8K JA 1/6W	1
R571	401 026 4308	CARBON 3.3K JA 1/6W	1
R572	401 026 4308	CARBON 3.3K JA 1/6W	1
R573	401 027 8602	CARBON 8.2K JA 1/6W	1
R574	401 027 8602	CARBON 8.2K JA 1/6W	1
R575	401 026 7606	CARBON 390K JA 1/6W	1
R576	401 026 7606	CARBON 390K JA 1/6W	1
R577	401 024 7707	CARBON 100K JA 1/6W	1
R578	401 024 7707	CARBON 100K JA 1/6W	1
R579	401 022 1905	CARBON 680 JA 1/4W	1
R580	401 016 2604	CARBON 220 JA 1/4W	1
R581	401 024 7400	CARBON 10K JA 1/6W	1
R582	401 025 8208	CARBON 22K JA 1/6W	1
R583	401 025 4606	CARBON 18K JA 1/6W	1
R584	401 024 7400	CARBON 10K JA 1/6W	1
R585	401 016 4806	CARBON 22K JA 1/4W	1
R586	401 025 4606	CARBON 18K JA 1/6W	1
R587	401 015 3800	CARBON 18K JA 1/4W	1
R588	401 026 9907	CARBON 4.7K JA 1/6W	1
R589	401 026 9907	CARBON 4.7K JA 1/6W	1
R590	401 025 4606	CARBON 18K JA 1/6W	1
R591	401 025 4606	CARBON 18K JA 1/6W	1
R592	401 020 2904	CARBON 47K JA 1/4W	1
R593	401 020 2904	CARBON 47K JA 1/4W	1
R594	401 012 7009	CARBON 10K JA 1/4W	1
R595	401 024 7400	CARBON 10K JA 1/6W	1
R596	401 025 8208	CARBON 22K JA 1/6W	1
R597	401 022 4104	CARBON 68K JA 1/4W	1
R598	401 027 5908	CARBON 68K JA 1/6W	1
R599	401 027 3003	CARBON 56K JA 1/6W	1
R600	401 027 3003	CARBON 56K JA 1/6W	1
R601	401 025 8703	CARBON 220K JA 1/6W	1
R602	401 025 8703	CARBON 220K JA 1/6W	1
R603	401 026 4308	CARBON 3.3K JA 1/6W	1
R604	401 026 4308	CARBON 3.3K JA 1/6W	1
R605	401 024 7004	CARBON 1K JA 1/6W	1
R606	401 024 7004	CARBON 1K JA 1/6W	1
R607	401 024 7400	CARBON 10K JA 1/6W	1
R608	401 024 7400	CARBON 10K JA 1/6W	1
R609	401 024 6700	CARBON 100 JA 1/6W	1
R610	401 024 6700	CARBON 100 JA 1/6W	1
R611	401 025 7409	CARBON 220 JA 1/6W	1
R612	401 025 7409	CARBON 220 JA 1/6W	1
R613	401 025 8208	CARBON 22K JA 1/6W	1
R614	401 025 8208	CARBON 22K JA 1/6W	1
R615	401 016 2604	CARBON 220 JA 1/4W	1
R616	401 013 7305	CARBON 120K JA 1/4W	1
R617	401 013 7305	CARBON 120K JA 1/4W	1
R618	401 024 7707	CARBON 100K JA 1/6W	1
R619	401 012 8105	CARBON 100K JA 1/4W	1
R620	401 025 1902	CARBON 15K JA 1/6W	1
R621	401 025 1902	CARBON 15K JA 1/6W	1
R622	401 026 7408	CARBON 39K JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R623	401 026 7408	CARBON 39K JA 1/6W	1
R624	401 026 1000	CARBON 2.7K JA 1/6W	1
R625	401 026 1000	CARBON 2.7K JA 1/6W	1
R626	401 027 8602	CARBON 8.2K JA 1/6W	1
R627	401 027 8602	CARBON 8.2K JA 1/6W	1
R628	401 025 1308	CARBON 150 JA 1/6W	1
R629	401 025 1308	CARBON 150 JA 1/6W	1
R630	401 025 3807	CARBON 180 JA 1/6W	1
R631	401 025 3807	CARBON 180 JA 1/6W	1
R632	401 027 5502	CARBON 6.8K JA 1/6W	1
R633	401 025 8208	CARBON 22K JA 1/6W	1
R634	401 024 7400	CARBON 10K JA 1/6W	1
R635	401 024 7400	CARBON 10K JA 1/6W	1
R636	401 016 2604	CARBON 220 JA 1/4W	1
R637	401 027 0309	CARBON 47K JA 1/6W	1
R638	401 027 3003	CARBON 56K JA 1/6W	1
R639	401 027 0309	CARBON 47K JA 1/6W	1
R640	401 027 0309	CARBON 47K JA 1/6W	1
R641	401 012 3407	CARBON 10 JA 1/4W	1
R642	401 012 3407	CARBON 10 JA 1/4W	1
R643	401 024 7707	CARBON 100K JA 1/6W	1
R644	401 024 7707	CARBON 100K JA 1/6W	1
R645	401 026 9907	CARBON 4.7K JA 1/6W	1
R646	401 020 2904	CARBON 47K JA 1/4W	1
R647	401 015 1608	CARBON 180 JA 1/4W	1
R648	401 024 7707	CARBON 100K JA 1/6W	1
R649	401 027 5502	CARBON 6.8K JA 1/6W	1
R650	401 024 7400	CARBON 10K JA 1/6W	1
R651	401 024 7400	CARBON 10K JA 1/6W	1
R652	401 026 9303	CARBON 47 JA 1/6W	1
R653	401 024 7400	CARBON 10K JA 1/6W	1
R654	401 025 8208	CARBON 22K JA 1/6W	1
R655	401 017 7608	CARBON 3.9 JA 1/4W	1
R656	401 016 2604	CARBON 220 JA 1/4W	1
R657	401 015 1608	CARBON 180 JA 1/4W	1
R658	401 020 2904	CARBON 47K JA 1/4W	1
R659	401 026 7408	CARBON 39K JA 1/6W	1
R660	401 020 2904	CARBON 47K JA 1/4W	1
R661	401 019 3004	CARBON 39K JA 1/4W	1
R662	401 024 7707	CARBON 100K JA 1/6W	1
R663	401 024 7707	CARBON 100K JA 1/6W	1
R664	401 024 7400	CARBON 10K JA 1/6W	1
R665	401 024 7707	CARBON 100K JA 1/6W	1
R666	401 024 7707	CARBON 100K JA 1/6W	1
R667	401 020 2904	CARBON 47K JA 1/4W	1
R668	401 024 7707	CARBON 100K JA 1/6W	1
R669	401 024 7707	CARBON 100K JA 1/6W	1
R670	401 027 3003	CARBON 56K JA 1/6W	1
R671	401 027 3003	CARBON 56K JA 1/6W	1
R672	401 026 9600	CARBON 470 JA 1/6W	1
R673	401 026 9600	CARBON 470 JA 1/6W	1
R674	401 021 4105	CARBON 56K JA 1/4W	1
R675	401 027 3003	CARBON 56K JA 1/6W	1
R676	401 024 7400	CARBON 10K JA 1/6W	1
R677	401 024 7400	CARBON 10K JA 1/6W	1
R678	401 027 9005	CARBON 82K JA 1/6W	1
R679	401 027 9005	CARBON 82K JA 1/6W	1
R680	401 024 7400	CARBON 10K JA 1/6W	1
R681	401 024 7400	CARBON 10K JA 1/6W	1
R682	402 016 4506	FUSIBLE RES 10 J- 1/2W	1
R683	402 016 4506	FUSIBLE RES 10 J- 1/2W	1
R684	402 040 6200	OXIDE-MT 100 JB 1/2W	1
R685	402 040 6200	OXIDE-MT 100 JB 1/2W	1
R686	401 016 3809	CARBON 2.2K JA 1/4W	1
R687	401 016 3809	CARBON 2.2K JA 1/4W	1
R688	402 040 5906	OXIDE-MT 2.2K JB 1/2W	1
R689	402 040 5906	OXIDE-MT 2.2K JB 1/2W	1
R690	402 015 7706	FUSIBLE RES 100 J- 1/4W	1
R691	402 015 7706	FUSIBLE RES 100 J- 1/4W	1
R692	402 039 5603	OXIDE-MT 4.7K JB 1/2W	1
R693	401 024 7004	CARBON 1K JA 1/6W	1
R694	401 024 7004	CARBON 1K JA 1/6W	1
R695	401 024 7707	CARBON 100K JA 1/6W	1
R696	401 024 7707	CARBON 100K JA 1/6W	1
R697	402 040 5104	OXIDE-MT 680 JB 1/2W	1
R698	402 051 5209	FUSIBLE RES 180 J- 1/2W	1
or	402 051 5308	FUSIBLE RES 180 J- 1/2W	1
R699	402 051 5209	FUSIBLE RES 180 J- 1/2W	1
or	402 051 5308	FUSIBLE RES 180 J- 1/2W	1

Ref. No.	Part No.	Description	Q'ty
R704	401 025 1902	CARBON 15K JA 1/6W	1
R705	401 025 1902	CARBON 15K JA 1/6W	1
R706	401 024 7400	CARBON 10K JA 1/6W	1
R707	401 024 7400	CARBON 10K JA 1/6W	1
R708	401 016 3809	CARBON 2.2K JA 1/4W	1
R709	401 016 3809	CARBON 2.2K JA 1/4W	1
R710	401 026 4605	CARBON 33K JA 1/6W	1
		ASSY,PCB,SUB TRANS	
62	620 200 1135	Assy,PCB,Sub Trans	1
	620 022 2587	EC Terminal 1P	2
	620 202 3434	Fuse Holder,Taping	6
	620 031 4763	Wire Wrap Terminal	5
	620 053 7025	Cover Safety	1
C931 ⚠	620 006 6679	Capacitor 0.01MF400V	1
F931 ⚠	423 004 6807	FUSE 250V T0.315A	1
F932 ⚠	423 006 4702	FUSE 250V T2.5A	1
F933 ⚠	423 005 0507	FUSE 250V T1.0A	1
HL931	620 200 2637	Socket,Holder,5P	1
JM931	620 200 2750	Wire,5P	1
RY931 ⚠	620 202 2130	Relay,Power,1P-1T,TV-5	1
T931 ⚠	620 200 0534	Power Trans,SEV	1
IC931	409 026 8500	IC L78M05	1
or	409 169 7804	IC NJM78M05FA	1
D931	407 004 9105	DIODE DSF10C-BT	1
or	407 096 5504	DIODE RL1N4003-E	1
D932	407 004 9105	DIODE DSF10C-BT	1
or	407 096 5504	DIODE RL1N4003-E	1
D934	407 008 0405	DIODE GMB01-BT	1
C932	403 043 7102	ELECT 330U M 16V	1
C933	403 039 4504	ELECT 470U M 6.3V	1
		ASSY,PCB,HEADPHONE	
63	620 200 1142	Assy,PCB,Headphone	1
	620 190 2242	Jack 7P Black	1
	620 203 4836	Assy,Wire,1P	1
HL751	620 200 2637	Socket,Holder,5P	1
JM751	620 200 2736	Wire,5P	1
C751	403 071 6207	CERAMIC 220P K 50V	1
C752	403 071 6207	CERAMIC 220P K 50V	1
C753	403 069 4000	CERAMIC 1000P Z 50V	1
R751	402 040 4909	OXIDE-MT 270 JB 1/2W	1
R752	402 040 4909	OXIDE-MT 270 JB 1/2W	1
R753	402 040 5005	OXIDE-MT 150 JB 1/2W	1
R754	402 040 5005	OXIDE-MT 150 JB 1/2W	1
		ASSY,PCB,SWITCH	
64	620 200 1159	Assy,PCB,Switch	1
HL951	620 200 2576	Socket,Holder,5P	1
JM951	620 200 2682	Wire,5P	1
SW951	620 203 7257	Switch,Push,2K-2P-2T	1
or	620 200 1500	Switch,Push,2K-2P-2T	1
		ASSY,PCB,TRANS	
65	620 200 1166	Assy,PCB,Trans	1
HL921	620 200 2637	Socket,Holder,5P	1
HL922	620 200 2613	Socket,Holder,2P	1
JM921	620 200 2743	Wire,5P	1
JM922	620 200 2767	Wire,2P	1
		ASSY,PCB,PLAYER	
66	620 200 1173	Assy,PCB,Player	1
	620 017 7160	Socket 2P	1
	620 196 5926	Protector	1
	620 202 3434	Fuse Holder,Taping	2
F351 ⚠	423 005 0507	FUSE 250V T1.0A	1
HL352	620 200 2613	Socket,Holder,2P	1
		ASSY,PCB,CONNECTOR	
67	620 200 1180	Assy,PCB,Connector	1
HL851	620 200 2606	Socket,Holder,9P	1
JM851	620 200 2729	Wire,9P	1
PL851	620 200 1579	Connector-P,9P	1
		ASSY,PCB,CONTROL	
68	620 200 1197	Assy,PCB,Control	1
	620 199 7866	Shield,Plate	6
	620 199 7880	Shield,Cover	6
	620 197 8308	Spacer,LED,Power	1

P.C.BOARD PARTS LIST (Continued)

ef. o.	Part No.	Description	Q'ty
	620 197 8346	Spacer,LED,Function	1
	620 201 3800	Assy,Wire,1P	1
₹301	620 007 3349	Ceramic,OSC CSA4.00	1
¥301	620 200 1531	Connector-S,7P	1
¥302	620 200 1531	Connector-S,7P	1
¥303	620 200 1531	Connector-S,7P	1
¥304	620 200 1531	Connector-S,7P	1
¥305	620 200 1524	Connector-S,52084,5P	1
¥306	620 200 1524	Connector-S,52084,5P	1
¥307	620 200 1548	Connector-S,9P	1
¥308	620 200 1548	Connector-S,9P	1
₹301	620 004 5209	Resistor 4X10K J	1
₹302	620 004 5209	Resistor 4X10K J	1
₹303	620 004 5544	Resistor 5X10K	1
₹304	620 004 5575	Resistor 4X100K J	1
¥301	620 196 1935	Converter,QH3111H0	1
¥300	620 014 8337	Keyboard Switch (POWER)	1
¥301	620 016 7796	Tact Switch (SURROUND)	1
¥302	620 016 7796	Tact Switch (TAPE)	1
¥303	620 016 7796	Tact Switch (TUNER)	1
¥304	620 016 7796	Tact Switch (CD)	1
¥305	620 016 7796	Tact Switch (AUX)	1
¥306	620 016 7796	Tact Switch (PHONO)	1
¥307	620 016 7796	Tact Switch (DOWN)	1
¥308	620 016 7796	Tact Switch (UP)	1
¥309	620 016 7796	Tact Switch (ST/MONO)	1
¥310	620 016 7796	Tact Switch (MW/LW)	1
¥311	620 016 7796	Tact Switch (FM)	1
¥312	620 016 7796	Tact Switch (MEMORY)	1
¥313	620 016 7796	Tact Switch (CLOCK/FREQUENCY)	1
¥314	620 016 7796	Tact Switch (CANCEL)	1
¥315	620 016 7796	Tact Switch (TIMER OFF)	1
¥316	620 016 7796	Tact Switch (TIMER ON)	1
¥317	620 016 7796	Tact Switch (1)	1
¥318	620 016 7796	Tact Switch (2)	1
¥319	620 016 7796	Tact Switch (3)	1
¥320	620 016 7796	Tact Switch (4)	1
¥321	620 016 7796	Tact Switch (5)	1
¥322	620 016 7796	Tact Switch (6)	1
₹301	620 200 1241	VR,Slide,2X100KW (SUPER BASS)	1
₹302	620 200 1241	VR,Slide,2X100KW (BASS)	1
₹303	620 200 1241	VR,Slide,2X100KW (MIDDLE)	1
₹304	620 200 1241	VR,Slide,2X100KW (TREBLE)	1
₹305	620 200 1241	VR,Slide,2X100KW (SUPER TREBLE)	1
₹306	620 200 1258	VR,Slide,2X50KMN (BALANCE)	1
301	409 214 2907	IC LC6543H-4378	1
302	409 114 4803	IC LB1641	1
301	405 019 2708	TR 2SC536-F-NP-AA	1
	405 019 3804	TR 2SC536-G-NP-AA	1
302	405 019 2708	TR 2SC536-F-NP-AA	1
	405 019 3804	TR 2SC536-G-NP-AA	1
303	405 004 4601	TR 2SA608-F-SPA-AC	1
	405 004 5103	TR 2SA608-G-SPA-AC	1
304	405 004 4601	TR 2SA608-F-SPA-AC	1
	405 004 5103	TR 2SA608-G-SPA-AC	1
305	405 004 4601	TR 2SA608-F-SPA-AC	1
	405 004 5103	TR 2SA608-G-SPA-AC	1
306	405 004 4601	TR 2SA608-F-SPA-AC	1
	405 004 5103	TR 2SA608-G-SPA-AC	1
307	405 004 4601	TR 2SA608-F-SPA-AC	1
	405 004 5103	TR 2SA608-G-SPA-AC	1
308	405 004 4601	TR 2SA608-F-SPA-AC	1
	405 004 5103	TR 2SA608-G-SPA-AC	1
309	405 004 4601	TR 2SA608-F-SPA-AC	1
	405 004 5103	TR 2SA608-G-SPA-AC	1
310	405 019 2708	TR 2SC536-F-NP-AA	1
	405 019 3804	TR 2SC536-G-NP-AA	1
311	405 019 2708	TR 2SC536-F-NP-AA	1
	405 019 3804	TR 2SC536-G-NP-AA	1
312	405 019 2708	TR 2SC536-F-NP-AA	1
	405 019 3804	TR 2SC536-G-NP-AA	1
313	405 018 2600	TR 2SC3400-AC	1
	405 035 0108	TR DTC124-XS-AUTO	1
314	405 004 4601	TR 2SA608-F-SPA-AC	1
	405 004 5103	TR 2SA608-G-SPA-AC	1
315	405 019 2708	TR 2SC536-F-NP-AA	1
	405 019 3804	TR 2SC536-G-NP-AA	1
₋301	407 110 6302	LED SLP-146B-51 (STANDBY)	1
₋302	407 108 1203	LED SLB-72VR3HLF (TAPE)	1

Ref. No.	Part No.	Description	Q'ty
DL303	407 108 1203	LED SLB-72VR3HLF (TUNER)	1
DL304	407 108 1203	LED SLB-72VR3HLF (CD)	1
DL305	407 108 1203	LED SLB-72VR3HLF (AUX)	1
DL306	407 108 1203	LED SLB-72VR3HLF (PHONO)	1
DL307	407 110 6302	LED SLP-146B-51 (SURROUND)	1
D301	407 008 0405	DIODE GMB01-BT	1
D302	407 008 0405	DIODE GMB01-BT	1
D303	407 008 0405	DIODE GMB01-BT	1
D304	407 008 0405	DIODE GMB01-BT	1
D305	407 005 3805	DIODE DS442-BT	1
D306	407 005 3805	DIODE DS442-BT	1
D307	407 008 0405	DIODE GMB01-BT	1
D308	407 008 0405	DIODE GMB01-BT	1
D309	407 008 0405	DIODE GMB01-BT	1
D310	407 008 0405	DIODE GMB01-BT	1
D311	407 008 0405	DIODE GMB01-BT	1
D312	407 050 3706	ZENER DIODE GZA4.7Y-BT	1
D313	407 005 3805	DIODE DS442-BT	1
D314	407 008 0405	DIODE GMB01-BT	1
C301	403 038 7209	ELECT 220U M 6.3V	1
C303	403 022 5907	CERAMIC 33P J 50V	1
C304	403 022 5907	CERAMIC 33P J 50V	1
C305	403 069 8404	CERAMIC 0.01U Z 50V	1
C306	403 049 1708	ELECT 1U M 50V	1
C307	403 050 3708	ELECT 22U M 50V	1
C308	403 049 1708	ELECT 1U M 50V	1
C309	403 042 3600	ELECT 100U M 16V	1
C310	403 074 2701	CERAMIC 0.047U Z 50V	1
C311	403 069 8404	CERAMIC 0.01U Z 50V	1
C312	403 049 5508	ELECT 10U M 50V	1
C313	403 072 2703	CERAMIC 0.022U Z 50V	1
R302	401 024 7400	CARBON 10K JA 1/6W	1
R303	401 027 9005	CARBON 82K JA 1/6W	1
R304	401 026 7408	CARBON 39K JA 1/6W	1
R305	401 027 3003	CARBON 56K JA 1/6W	1
R306	401 027 0507	CARBON 470K JA 1/6W	1
R307	401 025 4606	CARBON 18K JA 1/6W	1
R308	401 026 9907	CARBON 4.7K JA 1/6W	1
R309	401 025 7805	CARBON 2.2K JA 1/6W	1
R310	401 024 7004	CARBON 1K JA 1/6W	1
R311	401 025 7805	CARBON 2.2K JA 1/6W	1
R312	401 024 7004	CARBON 1K JA 1/6W	1
R313	401 025 7805	CARBON 2.2K JA 1/6W	1
R314	401 024 7004	CARBON 1K JA 1/6W	1
R315	401 016 3809	CARBON 2.2K JA 1/4W	1
R316	401 024 7004	CARBON 1K JA 1/6W	1
R317	401 016 3809	CARBON 2.2K JA 1/4W	1
R318	401 025 7805	CARBON 2.2K JA 1/6W	1
R319	401 024 7004	CARBON 1K JA 1/6W	1
R320	401 024 6700	CARBON 100 JA 1/6W	1
R321	401 024 6700	CARBON 100 JA 1/6W	1
R322	401 024 6700	CARBON 100 JA 1/6W	1
R323	401 024 6700	CARBON 100 JA 1/6W	1
R324	401 024 6700	CARBON 100 JA 1/6W	1
R325	401 024 6700	CARBON 100 JA 1/6W	1
R326	401 012 4503	CARBON 100 JA 1/4W	1
R327	401 024 7400	CARBON 10K JA 1/6W	1
R328	401 024 7400	CARBON 10K JA 1/6W	1
R329	401 024 7004	CARBON 1K JA 1/6W	1
R330	401 024 7004	CARBON 1K JA 1/6W	1
R331	401 024 7004	CARBON 1K JA 1/6W	1
R332	401 024 7004	CARBON 1K JA 1/6W	1
R333	401 026 4605	CARBON 33K JA 1/6W	1
R334	401 025 8208	CARBON 22K JA 1/6W	1
R335	401 025 8208	CARBON 22K JA 1/6W	1
R336	401 025 8208	CARBON 22K JA 1/6W	1
R337	401 024 9305	CARBON 1.2K JA 1/6W	1
R338	401 024 7707	CARBON 100K JA 1/6W	1
R339	401 012 7009	CARBON 10K JA 1/4W	1
R340	401 012 5708	CARBON 1K JA 1/4W	1
R341	401 024 7004	CARBON 1K JA 1/6W	1
R342	401 012 5708	CARBON 1K JA 1/4W	1
R343	402 016 1208	FUSIBLE RES 10 J- 1/2W	1
or	402 016 4506	FUSIBLE RES 10 J- 1/2W	1
R344	401 025 8208	CARBON 22K JA 1/6W	1
R345	401 026 7408	CARBON 39K JA 1/6W	1
R346	401 024 9305	CARBON 1.2K JA 1/6W	1
R347	401 020 2003	CARBON 4.7K JA 1/4W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,GRAPHIC EQ.			
69	620 200 1203	Assy,PCB,Graphic EQ.	1
HL401	620 200 2590	Socket,Holder,7P	1
HL402	620 200 2590	Socket,Holder,7P	1
HL403	620 200 2583	Socket,Holder,6P	1
JM401	620 200 2699	Wire,7P	1
JM402	620 200 2705	Wire,7P	1
JM403	620 200 2712	Wire,6P	1
PL401	620 200 1562	Connector-P,7P	1
PL402	620 200 1562	Connector-P,7P	1
PL403	620 200 1562	Connector-P,7P	1
PL404	620 200 1562	Connector-P,7P	1
PL405	620 200 1555	Connector-P,5P	1
PL406	620 200 1555	Connector-P,5P	1
IC401	409 018 4503	IC LA6458DS	1
Q401	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q402	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q403	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q404	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q405	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q406	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q407	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q408	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q409	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q410	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q411	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
C401	403 049 1906	ELECT 1U M 50V	1
C402	403 049 1906	ELECT 1U M 50V	1
C403	403 018 8509	CERAMIC 220P K 50V	1
C404	403 018 8509	CERAMIC 220P K 50V	1
C405	403 018 8509	CERAMIC 220P K 50V	1
C406	403 018 8509	CERAMIC 220P K 50V	1
C407	403 018 4204	CERAMIC 22P K 50V	1
C408	403 018 4204	CERAMIC 22P K 50V	1
C409	403 044 0706	ELECT 47U M 16V	1
C410	403 044 0706	ELECT 47U M 16V	1
C411	403 106 0101	ELECT 10U M 50V	1
C412	403 106 0101	ELECT 10U M 50V	1
C413	403 050 1506	ELECT 2.2U M 50V	1
C414	403 050 1506	ELECT 2.2U M 50V	1
C415	403 048 7800	ELECT 0.47U M 50V	1
C416	403 048 7800	ELECT 0.47U M 50V	1
C417	403 063 8103	POLYESTER 0.082U K 50V	1
C418	403 063 8103	POLYESTER 0.082U K 50V	1
C419	403 059 6601	POLYESTER 0.022U K 50V	1
C420	403 059 6601	POLYESTER 0.022U K 50V	1
C421	403 061 8709	POLYESTER 4700P K 50V	1
C422	403 061 8709	POLYESTER 4700P K 50V	1
C423	403 059 0401	POLYESTER 0.018U K 50V	1
C424	403 059 0401	POLYESTER 0.018U K 50V	1
C425	403 063 6208	POLYESTER 8200P K 50V	1
C426	403 063 6208	POLYESTER 8200P K 50V	1
C427	403 061 8709	POLYESTER 4700P K 50V	1
C428	403 061 8709	POLYESTER 4700P K 50V	1
C429	403 070 8608	CERAMIC 1500P K 50V	1
C430	403 070 8608	CERAMIC 1500P K 50V	1
C431	403 074 9007	CERAMIC 680P K 50V	1
C432	403 074 9007	CERAMIC 680P K 50V	1
C433	403 042 3907	ELECT 100U M 16V	1
C434	403 042 3907	ELECT 100U M 16V	1
C435	403 050 1506	ELECT 2.2U M 50V	1
R401	401 026 9907	CARBON 4.7K JA 1/6W	1
R402	401 026 9907	CARBON 4.7K JA 1/6W	1
R403	401 024 7707	CARBON 100K JA 1/6W	1
R404	401 024 7707	CARBON 100K JA 1/6W	1
R405	401 026 9907	CARBON 4.7K JA 1/6W	1
R406	401 026 9907	CARBON 4.7K JA 1/6W	1
R407	401 024 7707	CARBON 100K JA 1/6W	1

Ref. No.	Part No.	Description	Q'ty
R408	401 024 7707	CARBON 100K JA 1/6W	1
R409	401 024 9305	CARBON 1.2K JA 1/6W	1
R410	401 024 9305	CARBON 1.2K JA 1/6W	1
R411	401 024 9305	CARBON 1.2K JA 1/6W	1
R412	401 024 9305	CARBON 1.2K JA 1/6W	1
R413	401 025 1605	CARBON 1.5K JA 1/6W	1
R414	401 025 1605	CARBON 1.5K JA 1/6W	1
R415	401 025 1605	CARBON 1.5K JA 1/6W	1
R416	401 025 1605	CARBON 1.5K JA 1/6W	1
R417	401 025 1605	CARBON 1.5K JA 1/6W	1
R418	401 025 1605	CARBON 1.5K JA 1/6W	1
R419	401 025 2305	CARBON 150K JA 1/6W	1
R420	401 025 2305	CARBON 150K JA 1/6W	1
R421	401 024 7707	CARBON 100K JA 1/6W	1
R422	401 024 7707	CARBON 100K JA 1/6W	1
R423	401 026 7408	CARBON 39K JA 1/6W	1
R424	401 026 7408	CARBON 39K JA 1/6W	1
R425	401 026 4605	CARBON 33K JA 1/6W	1
R426	401 026 4605	CARBON 33K JA 1/6W	1
R427	401 025 8208	CARBON 22K JA 1/6W	1
R428	401 025 8208	CARBON 22K JA 1/6W	1
R429	401 026 6609	CARBON 390 JA 1/6W	1
R430	401 026 6609	CARBON 390 JA 1/6W	1
R431	401 026 6609	CARBON 390 JA 1/6W	1
R432	401 026 6609	CARBON 390 JA 1/6W	1
R433	401 026 6609	CARBON 390 JA 1/6W	1
R434	401 026 6609	CARBON 390 JA 1/6W	1
R435	401 026 6609	CARBON 390 JA 1/6W	1
R436	401 026 6609	CARBON 390 JA 1/6W	1
R437	401 026 6609	CARBON 390 JA 1/6W	1
R438	401 026 6609	CARBON 390 JA 1/6W	1
R439	401 027 8602	CARBON 8.2K JA 1/6W	1
R440	401 027 8602	CARBON 8.2K JA 1/6W	1
R441	401 027 8602	CARBON 8.2K JA 1/6W	1
R442	401 027 8602	CARBON 8.2K JA 1/6W	1
R443	401 027 8602	CARBON 8.2K JA 1/6W	1
R444	401 027 8602	CARBON 8.2K JA 1/6W	1
R445	401 027 8602	CARBON 8.2K JA 1/6W	1
R446	401 027 8602	CARBON 8.2K JA 1/6W	1
R447	401 027 8602	CARBON 8.2K JA 1/6W	1
R448	401 027 8602	CARBON 8.2K JA 1/6W	1
R449	401 016 2604	CARBON 220 JA 1/4W	1
R450	401 016 2604	CARBON 220 JA 1/4W	1
R451	401 025 7805	CARBON 2.2K JA 1/6W	1
R452	401 016 3809	CARBON 2.2K JA 1/4W	1
ASSY,PCB,VOLUME			
70	620 200 1210	Assy,PCB,Volume	1
	620 031 4763	Wire Wrap Terminal	2
	620 200 2675	Assy,Wire,3P	1
HL911	620 200 2620	Socket,Holder,3P	1
VR911	620 200 1265	VR,Rotary,2X20KA	1
Q911	405 021 0600	TR 2SD1012-G-SPA-AC	1
or	405 021 0907	TR 2SD1012-H-SPA-AC	1
Q912	405 021 0600	TR 2SD1012-G-SPA-AC	1
or	405 021 0907	TR 2SD1012-H-SPA-AC	1
R911	401 025 7805	CARBON 2.2K JA 1/6W	1
R912	401 025 7805	CARBON 2.2K JA 1/6W	1
R913	401 026 4308	CARBON 3.3K JA 1/6W	1
R914	401 026 4308	CARBON 3.3K JA 1/6W	1
ASSY,PCB,VOLUME INDICATOR			
71	620 200 1227	Assy,PCB,Volume Indicator	1
LD901	407 113 4503	LED SLP-646B-50	1
ASSY,PCB,TUNER			
72	620 200 2484	Assy,PCB,Tuner	1
	620 000 4138	FM Frontend 4EU AGC	1

(Component parts used in Front End are not serviceable and available.)

	620 017 0734	Protector ICP-5	1
	620 022 2921	ANT Terminal 3P	1
	411 020 8004	SCR S-TPG BRZ 3X8	1
	620 031 4763	Wire Wrap Terminal	4
	620 053 8848	Plate Heat Sink	1
	620 190 0521	Cover Shield	1

P.C.BOARD PARTS LIST (Continued)

ef. lo.	Part No.	Description	Q'ty
	620 189 5872	Plate Sever	1
PF1	620 026 9353	FTZ Antenna Filter	1
PF2	620 026 4396	Anti Birdie Filter	1
F101	620 014 5862	Ceramic Filter 450kHz	1
F102	620 014 5664	Ceramic Filter	1
F103	620 014 5664	Ceramic Filter	1
F104	620 014 6258	Ceramic OSC	1
N101	620 193 0245	Socket 5P	1
N102	620 200 2590	Socket,Holder,7P	1
N103	620 200 2583	Socket,Holder,6P	1
N104	620 201 0144	Socket,Holder,2P	1
251	620 201 0175	Wire,7P	1
252	620 201 0168	Wire,6P	1
253	620 201 0151	Wire,2P	1
PF1	620 026 4754	Low Pass Filter	1
PF2	620 026 4754	Low Pass Filter	1
101	620 199 4735	Inductor 470UH J	1
R101	620 006 1353	Potentiometer 100KB	1
R102	620 006 1377	Potentiometer 10KB	1
R103	620 006 1353	Potentiometer 100KB	1
C101	620 006 9724	Trimmer Condenser	1
C102	620 007 0614	Trimmer 20PF	1
101	620 192 7467	MW Antenna Coil	1
r	620 028 1348	MW Antenna Coil	1
102	620 028 2901	LW Antenna Coil	1
r	620 028 1362	LW Antenna Coil	1
103	620 027 7280	AM IFT	1
r	620 027 7006	IFT AM	1
104	620 192 7474	OSC Coil MW	1
r	620 028 7760	OSC Coil MW	1
r	620 028 7784	OSC Coil MW	1
105	620 192 7481	OSC Coil LW	1
r	620 028 7821	OSC Coil LW	1
r	620 028 7845	OSC Coil LW	1
106	620 192 7443	IFT FM-DET 1st	1
r	620 027 7242	IFT, FM DET 1st	1
107	620 192 7450	IFT FM-DET 2nd	1
r	620 027 7259	IFT, FM DET 2nd	1
W101	620 202 7371	Wire,Shield	1
C101	409 073 9505	IC LA1266	1
C102	409 017 0803	IC LA3400	1
C103	409 159 8804	IC TC9227P	1
C104	409 074 0808	IC LA5667	1
Q101	405 027 0604	TR 2SK246-Y	1
Q102	405 021 0907	TR 2SD1012-H-SPA-AC	1
103	405 019 2708	TR 2SC536-F-NP-AA	1
r	405 019 3804	TR 2SC536-G-NP-AA	1
104	405 019 2708	TR 2SC536-F-NP-AA	1
r	405 019 3804	TR 2SC536-G-NP-AA	1
Q105	405 019 2708	TR 2SC536-F-NP-AA	1
r	405 019 3804	TR 2SC536-G-NP-AA	1
Q106	405 019 2708	TR 2SC536-F-NP-AA	1
r	405 019 3804	TR 2SC536-G-NP-AA	1
Q107	405 004 4502	TR 2SA608-F-NP-AA	1
r	405 004 5004	TR 2SA608-G-NP	1
Q108	405 016 0806	TR 2SC2839-E	1
r	405 016 1001	TR 2SC2839-F	1
Q109	405 004 4502	TR 2SA608-F-NP-AA	1
r	405 004 5004	TR 2SA608-G-NP	1
Q110	405 019 2708	TR 2SC536-F-NP-AA	1
r	405 019 3804	TR 2SC536-G-NP-AA	1
Q112	405 004 4502	TR 2SA608-F-NP-AA	1
r	405 004 5004	TR 2SA608-G-NP	1
Q113	405 019 2708	TR 2SC536-F-NP-AA	1
r	405 019 3804	TR 2SC536-G-NP-AA	1
Q116	405 019 2708	TR 2SC536-F-NP-AA	1
r	405 019 3804	TR 2SC536-G-NP-AA	1
Q117	405 021 0600	TR 2SD1012-G-SPA-AC	1
r	405 021 0907	TR 2SD1012-H-SPA-AC	1
Q118	405 021 0600	TR 2SD1012-G-SPA-AC	1
r	405 021 0907	TR 2SD1012-H-SPA-AC	1
Q119	405 004 4502	TR 2SA608-F-NP-AA	1
r	405 004 5004	TR 2SA608-G-NP	1
Q120	405 085 5900	TR 2SK246-Y1	1
r	405 085 5801	TR 2SK246-Y2	1
Q121	405 016 9502	TR 2SC3069	1
Q122	405 019 2708	TR 2SC536-F-NP-AA	1
r	405 019 3804	TR 2SC536-G-NP-AA	1

Ref. No.	Part No.	Description	Q'ty
		If necessary, replace both Diode D101, D105 (SVC321) together with new ones which have the equivalent characteristics.	
D101	407 000 4708	VARACTOR DI SVC321C-2	1
or	407 000 4807	VARACTOR DI SVC321D-2	1
D102	407 005 3805	DIODE DS442-BT	1
D103	407 008 0405	DIODE GMB01-BT	1
D104	407 005 3805	DIODE DS442-BT	1
D105	407 000 4708	VARACTOR DI SVC321C-2	1
or	407 000 4807	VARACTOR DI SVC321D-2	1
D106	407 008 0405	DIODE GMB01	1
D107	407 005 3805	DIODE DS442-BT	1
D108	407 008 0405	DIODE GMB01-BT	1
D109	407 005 3805	DIODE DS442-BT	1
D110	407 004 9105	DIODE DSF10C-BT	1
D111	407 004 9105	DIODE DSF10C-BT	1
D112	407 004 9105	DIODE DSF10C-BT	1
D113	407 004 9105	DIODE DSF10C-BT	1
C101	403 074 2701	CERAMIC 0.047U Z 50V	1
C102	403 026 5408	CERAMIC 47P K 50V	1
C103	403 074 2701	CERAMIC 0.047U Z 50V	1
C104	403 074 2701	CERAMIC 0.047U Z 50V	1
C105	403 069 8404	CERAMIC 0.01U Z 50V	1
C106	403 008 5204	CERAMIC 10P D 50V	1
C107	403 050 1209	ELECT 2.2U M 50V	1
C108	403 023 1700	CERAMIC 33P K 50V	1
C109	403 031 0306	CERAMIC 68P K 50V	1
C110	403 017 7404	CERAMIC 22P J 50V	1
C111	403 088 4104	STYRENE 430P J 50V	1
C112	403 074 2701	CERAMIC 0.047U Z 50V	1
C113	403 088 1103	STYRENE 330P J 50V	1
C114	403 069 8404	CERAMIC 0.01U Z 50V	1
C115	403 069 8404	CERAMIC 0.01U Z 50V	1
C116	403 069 8404	CERAMIC 0.01U Z 50V	1
C117	403 038 2303	ELECT 100U M 6.3V	1
C118	403 042 0302	ELECT 10U M 16V	1
C119	403 047 1502	ELECT 4.7U M 25V	1
C120	403 049 1609	ELECT 1U M 50V	1
C121	403 069 8404	CERAMIC 0.01U Z 50V	1
C122	403 050 7706	ELECT 3.3U M 50V	1
C123	403 047 1502	ELECT 4.7U M 25V	1
C124	403 069 8404	CERAMIC 0.01U Z 50V	1
C125	403 074 2701	CERAMIC 0.047U Z 50V	1
C126	403 057 0908	POLYESTER 0.01U K 50V	1
C127	403 029 0509	CERAMIC 560P K 50V	1
C128	403 069 8404	CERAMIC 0.01U Z 50V	1
C129	403 039 2906	ELECT 47U M 6.3V	1
C130	403 069 8404	CERAMIC 0.01U Z 50V	1
C131	403 044 0201	ELECT 47U M 16V	1
C132	403 069 8404	CERAMIC 0.01U Z 50V	1
C133	403 074 2701	CERAMIC 0.047U Z 50V	1
C134	403 074 2701	CERAMIC 0.047U Z 50V	1
C135	403 049 1609	ELECT 1U M 50V	1
C136	403 069 8404	CERAMIC 0.01U Z 50V	1
C137	403 002 2902	CERAMIC 0.01U M 25V	1
C138	403 069 8404	CERAMIC 0.01U Z 50V	1
C139	403 042 0302	ELECT 10U M 16V	1
C140	403 069 8404	CERAMIC 0.01U Z 50V	1
C141	403 074 2701	CERAMIC 0.047U Z 50V	1
C142	403 039 2906	ELECT 47U M 6.3V	1
C143	403 057 0908	POLYESTER 0.01U K 50V	1
C144	403 069 1504	CERAMIC 1000P K 50V	1
C145	403 049 1609	ELECT 1U M 50V	1
C146	403 069 8404	CERAMIC 0.01U Z 50V	1
C148	403 069 8404	CERAMIC 0.01U Z 50V	1
C149	403 069 8404	CERAMIC 0.01U Z 50V	1
C150	403 069 8404	CERAMIC 0.01U Z 50V	1
C151	403 026 5408	CERAMIC 47P K 50V	1
C152	403 042 0302	ELECT 10U M 16V	1
C153	403 044 0201	ELECT 47U M 16V	1
C154	403 049 1609	ELECT 1U M 50V	1
C155	403 048 7602	ELECT 0.47U M 50V	1
C156	403 050 1209	ELECT 2.2U M 50V	1
C157	403 057 0908	POLYESTER 0.01U K 50V	1
C158	403 045 2808	ELECT 1000U M 25V	1
C159	403 069 8404	CERAMIC 0.01U Z 50V	1
C160	403 069 8404	CERAMIC 0.01U Z 50V	1
C161	403 069 8404	CERAMIC 0.01U Z 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
C162	403 069 8404	CERAMIC 0.01U Z 50V	1
C163	403 061 4404	POLYESTER 0.039U K 50V	1
C164	403 063 0503	POLYESTER 6800P K 50V	1
C165	403 061 8709	POLYESTER 4700P K 50V	1
C166	403 023 5807	CERAMIC 330P K 50V	1
C167	403 056 8608	POLYESTER 1000P K 50V	1
C168	403 042 0302	ELECT 10U M 16V	1
C169	403 081 8505	POLYPRO 390P J 100V	1
C170	403 081 8505	POLYPRO 390P J 100V	1
C171	403 047 1502	ELECT 4.7U M 25V	1
C172	403 047 1502	ELECT 4.7U M 25V	1
C173	403 074 7409	CERAMIC 5600P K 50V	1
C174	403 074 7409	CERAMIC 5600P K 50V	1
C175	403 074 2701	CERAMIC 0.047U Z 50V	1
C176	403 026 5408	CERAMIC 47P K 50V	1
C177	403 049 1609	ELECT 1U M 50V	1
C178	403 062 0900	POLYESTER 0.047U K 50V	1
C179	403 069 8404	CERAMIC 0.01U Z 50V	1
C180	403 069 8404	CERAMIC 0.01U Z 50V	1
C181	403 044 0201	ELECT 47U M 16V	1
R101	401 009 6602	CARBON 3.3K JA 1/2W	1
R102	401 024 8001	CARBON 1M JA 1/6W	1
R103	401 024 7004	CARBON 1K JA 1/6W	1
R104	401 024 8001	CARBON 1M JA 1/6W	1
R105	401 026 6609	CARBON 390 JA 1/6W	1
R106	401 026 1000	CARBON 2.7K JA 1/6W	1
R107	401 012 4503	CARBON 100 JA 1/4W	1
R108	401 024 7004	CARBON 1K JA 1/6W	1
R109	401 016 4806	CARBON 22K JA 1/4W	1
R110	401 025 7805	CARBON 2.2K JA 1/6W	1
R111	401 024 7400	CARBON 10K JA 1/6W	1
R112	401 025 8208	CARBON 22K JA 1/6W	1
R113	401 012 4503	CARBON 100 JA 1/4W	1
R114	401 026 9907	CARBON 4.7K JA 1/6W	1
R115	401 014 4105	CARBON 1.5K JA 1/4W	1
R116	401 026 9907	CARBON 4.7K JA 1/6W	1
R117	401 016 4806	CARBON 22K JA 1/4W	1
R118	401 027 0309	CARBON 47K JA 1/6W	1
R119	401 020 2904	CARBON 47K JA 1/4W	1
R120	401 012 7009	CARBON 10K JA 1/4W	1
R121	401 027 0309	CARBON 47K JA 1/6W	1
R122	401 018 3807	CARBON 3.3K JA 1/4W	1
R123	401 027 0309	CARBON 47K JA 1/6W	1
R124	401 027 5502	CARBON 6.8K JA 1/6W	1
R125	401 025 8208	CARBON 22K JA 1/6W	1
R126	401 016 3809	CARBON 2.2K JA 1/4W	1
R127	401 026 6609	CARBON 390 JA 1/6W	1
R128	401 027 5205	CARBON 680 JA 1/6W	1
R129	401 019 1000	CARBON 390 JA 1/4W	1
R130	401 027 0309	CARBON 47K JA 1/6W	1
R131	401 024 7004	CARBON 1K JA 1/6W	1
R132	401 018 3807	CARBON 3.3K JA 1/4W	1
R133	401 019 6203	CARBON 4.7 JA 1/4W	1
R134	401 025 7805	CARBON 2.2K JA 1/6W	1
R135	401 027 5502	CARBON 6.8K JA 1/6W	1
R136	401 027 0309	CARBON 47K JA 1/6W	1
R137	401 027 0309	CARBON 47K JA 1/6W	1
R138	401 025 8208	CARBON 22K JA 1/6W	1
R139	401 026 1000	CARBON 2.7K JA 1/6W	1
R140	401 012 8105	CARBON 100K JA 1/4W	1
R141	401 027 9005	CARBON 82K JA 1/6W	1
R142	401 026 7408	CARBON 39K JA 1/6W	1
R143	401 024 7707	CARBON 100K JA 1/6W	1
R144	401 027 0309	CARBON 47K JA 1/6W	1
R145	401 016 1508	CARBON 22 JA 1/4W	1
R146	401 025 8208	CARBON 22K JA 1/6W	1
R147	401 012 8105	CARBON 100K JA 1/4W	1
R148	401 012 8105	CARBON 100K JA 1/4W	1
R149	401 024 7004	CARBON 1K JA 1/6W	1
R150	401 026 9907	CARBON 4.7K JA 1/6W	1
R151	401 025 1902	CARBON 15K JA 1/6W	1
R152	401 024 7707	CARBON 100K JA 1/6W	1
R153	401 016 4806	CARBON 22K JA 1/4W	1
R154	401 027 2600	CARBON 5.6K JA 1/6W	1
R155	401 024 7400	CARBON 10K JA 1/6W	1
R156	401 025 8703	CARBON 220K JA 1/6W	1
R157	401 024 8001	CARBON 1M JA 1/6W	1
R158	401 016 1508	CARBON 22 JA 1/4W	1
R159	401 024 7004	CARBON 1K JA 1/6W	1

Ref. No.	Part No.	Description	Q'ty
R160	401 024 7400	CARBON 10K JA 1/6W	1
R161	401 027 0309	CARBON 47K JA 1/6W	1
R162	401 020 2904	CARBON 47K JA 1/4W	1
R163	401 024 7707	CARBON 100K JA 1/6W	1
R164	401 027 5502	CARBON 6.8K JA 1/6W	1
R165	401 025 7805	CARBON 2.2K JA 1/6W	1
R166	401 025 0004	CARBON 120K JA 1/6W	1
R167	401 025 0004	CARBON 120K JA 1/6W	1
R168	401 025 0905	CARBON 130K JA 1/6W	1
R169	401 024 7400	CARBON 10K JA 1/6W	1
R170	401 026 4308	CARBON 3.3K JA 1/6W	1
R171	401 026 4308	CARBON 3.3K JA 1/6W	1
R172	401 026 4308	CARBON 3.3K JA 1/6W	1
R173	401 027 5908	CARBON 68K JA 1/6W	1
R174	401 018 4903	CARBON 33K JA 1/4W	1
R175	401 024 7400	CARBON 10K JA 1/6W	1
R176	401 026 4605	CARBON 33K JA 1/6W	1
R177	401 026 4308	CARBON 3.3K JA 1/6W	1
R178	401 026 4308	CARBON 3.3K JA 1/6W	1
R179	401 027 2600	CARBON 5.6K JA 1/6W	1
R180	401 027 2600	CARBON 5.6K JA 1/6W	1
R182	401 024 7400	CARBON 10K JA 1/6W	1
R183	401 027 2600	CARBON 5.6K JA 1/6W	1
R184	401 027 2600	CARBON 5.6K JA 1/6W	1
R185	401 020 0801	CARBON 470 JA 1/4W	1
R186	401 027 5205	CARBON 680 JA 1/6W	1
R187	401 024 7400	CARBON 10K JA 1/6W	1
R188	401 018 3807	CARBON 3.3K JA 1/4W	1
R189	401 018 3807	CARBON 3.3K JA 1/4W	1
R190	401 019 9600	CARBON 47 JA 1/4W	1
R191	401 012 5708	CARBON 1K JA 1/4W	1
R192	401 024 7004	CARBON 1K JA 1/6W	1
R193	401 012 5708	CARBON 1K JA 1/4W	1
R194	401 012 5708	CARBON 1K JA 1/4W	1
R195	401 012 5708	CARBON 1K JA 1/4W	1
R196	401 012 5708	CARBON 1K JA 1/4W	1
R198	401 012 7009	CARBON 10K JA 1/4W	1
R203	401 026 4308	CARBON 3.3K JA 1/6W	1
R204	401 027 0309	CARBON 47K JA 1/6W	1
R205	401 024 7004	CARBON 1K JA 1/6W	1
R206	401 012 5708	CARBON 1K JA 1/4W	1
R207	401 025 0905	CARBON 130K JA 1/6W	1
ASSY,PCB,CONTROL			
73	620 200 2491	Assy,PCB,Control	1
	620 053 9821	Reflector	1
	620 191 0414	Filter	1
	620 201 7181	Assy,Wire,Shield 1S	1
CN251	620 200 1579	Connector-P,9P	1
CN252	620 200 1579	Connector-P,9P	1
CN253	620 200 2590	Socket,Holder,7P	1
CN254	620 200 2583	Socket,Holder,6P	1
LCD1	620 200 2514	LCD,Tuner	1
TC251	620 007 0614	Trimmer 20PF	1
X251	620 007 1321	Crystal 7.2MHz	1
IC251	409 195 1005	IC TC9306F-043	1
Q251	405 018 2600	TR 2SC3400-AC	1
D251	407 005 3805	DIODE DS442-BT	1
D252	407 005 3805	DIODE DS442-BT	1
D253	407 008 0405	DIODE GMB01-BT	1
C251	403 040 6603	ELECT 2200U M 10V	1
C252	403 069 8404	CERAMIC 0.01U Z 50V	1
C253	403 038 2303	ELECT 100U M 6.3V	1
C254	403 017 7404	CERAMIC 22P J 50V	1
C255	403 022 5907	CERAMIC 33P J 50V	1
R251	401 012 4503	CARBON 100 JA 1/4W	1
R252	401 027 2600	CARBON 5.6K JA 1/6W	1
R253	401 018 3807	CARBON 3.3K JA 1/4W	1
R254	401 018 3807	CARBON 3.3K JA 1/4W	1
R255	401 018 3807	CARBON 3.3K JA 1/4W	1
R256	401 018 3807	CARBON 3.3K JA 1/4W	1
R257	401 012 7009	CARBON 10K JA 1/4W	1
R258	401 012 7009	CARBON 10K JA 1/4W	1
R259	401 012 7009	CARBON 10K JA 1/4W	1
R260	401 012 7009	CARBON 10K JA 1/4W	1
R261	401 012 7009	CARBON 10K JA 1/4W	1
R262	401 012 7009	CARBON 10K JA 1/4W	1
R263	401 024 7400	CARBON 10K JA 1/6W	1
R264	401 012 5708	CARBON 1K JA 1/4W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R265	401 012 7009	CARBON 10K JA 1/4W	1
R266	401 020 2904	CARBON 47K JA 1/4W	1
R267	401 026 7002	CARBON 3.9K JA 1/6W	1
ASSY,PCB,LAMP			
W4	620 200 2507	Assy,PCB,Lamp	1
	620 030 8144	Lamp	2
	620 052 0171	Spacer	2
ASSY,PCB,MECHA			
R42	620 200 1234	Assy,PCB,Mecha	1
CN801	620 200 1548	Connector-S,9P	1
R801	620 004 6800	Semi Fixed 5KB	1
SW801	620 016 2159	Leaf Switch (REC Switch)	1
Q801	405 019 2708	TR 2SC536-F-NP-AA	1
Q1	405 019 3804	TR 2SC536-G-NP-AA	1
C801	403 072 2703	CERAMIC 0.022U Z 50V	1
C802	403 072 2703	CERAMIC 0.022U Z 50V	1
R801	401 025 7409	CARBON 220 JA 1/6W	1
R802	401 109 8209	MT-FILM 470 JV 1/4W	1
R803	401 026 0607	CARBON 270 JA 1/6W	1
R804	401 016 4806	CARBON 22K JA 1/4W	1

NOTES:

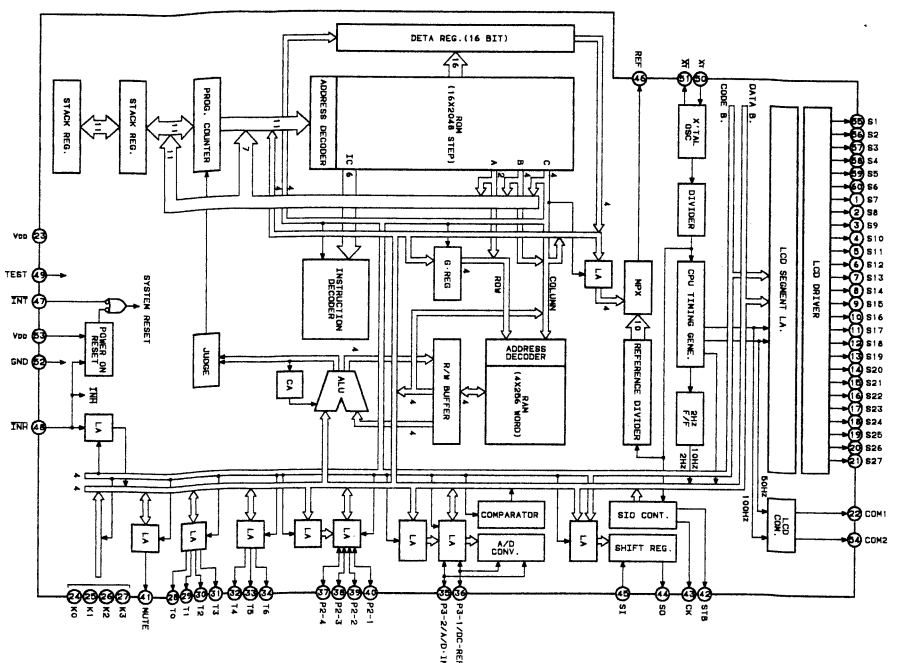
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

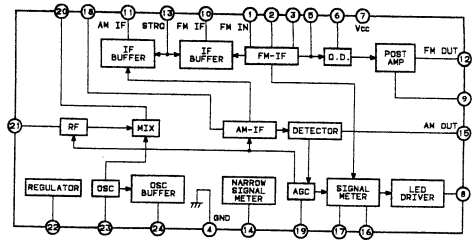
IC BLOCK DIAGRAM

TC9306F-043 BLOCK DIAGRAM

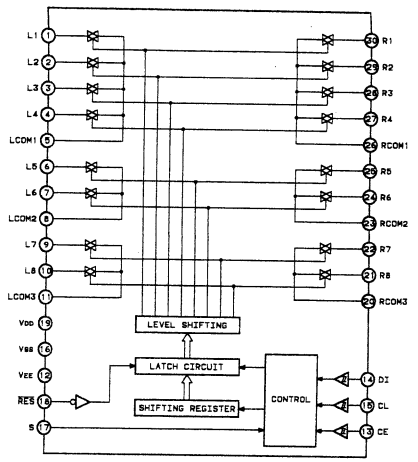


IC BLOCK DIAGRAM (Continued)

LA1266 BLOCK DIAGRAM



LC7821 BLOCK DIAGRAM



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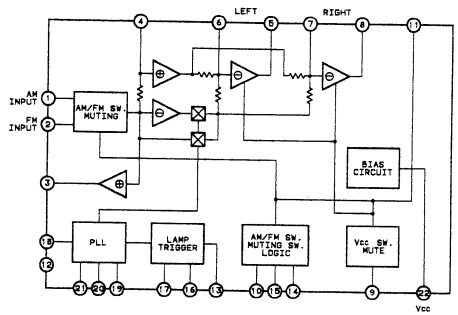

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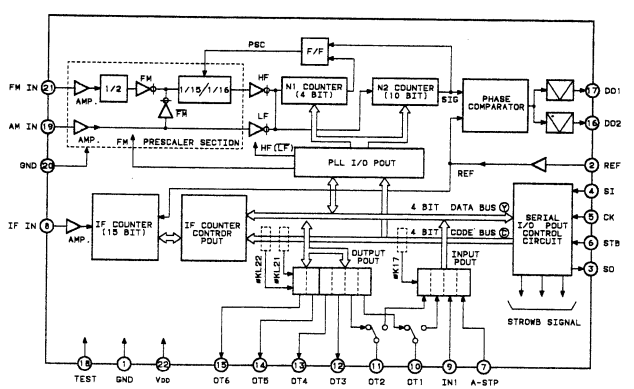

IC BLOCK DIAGRAM (Continued)

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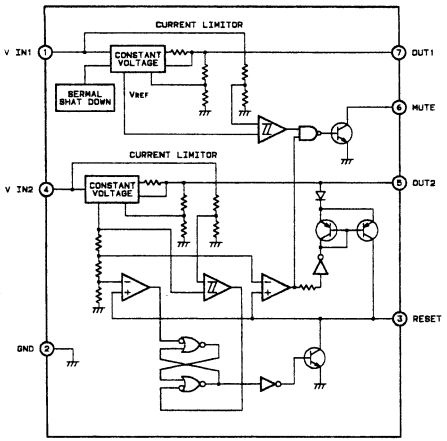

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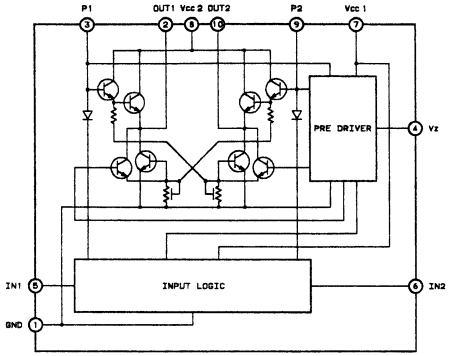
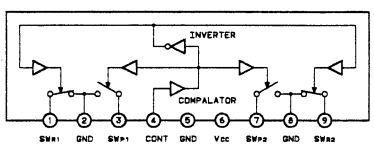


UPC1330HA BLOCK DIAGRAM



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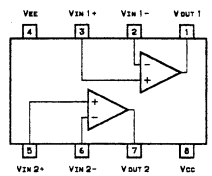

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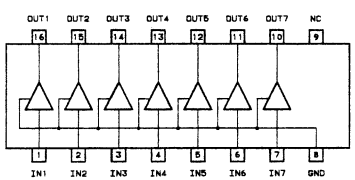
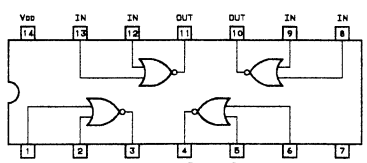


MLC4001B BLOCK DIAGRAM



IC BLOCK DIAGRAM (Continued)

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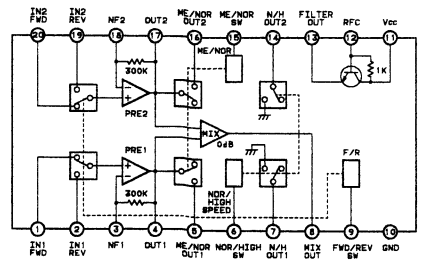

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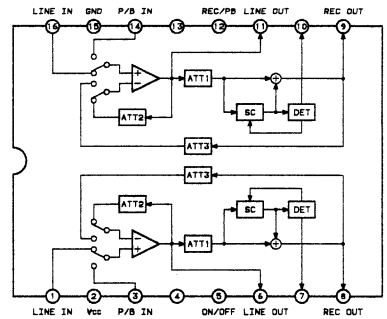

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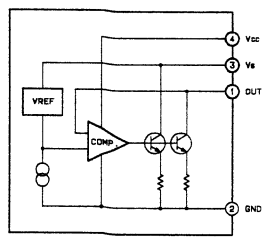

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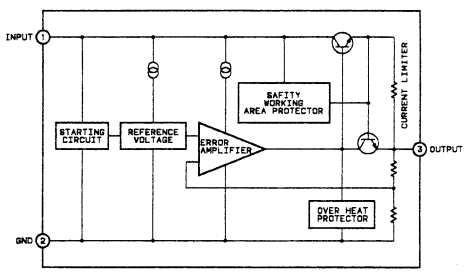
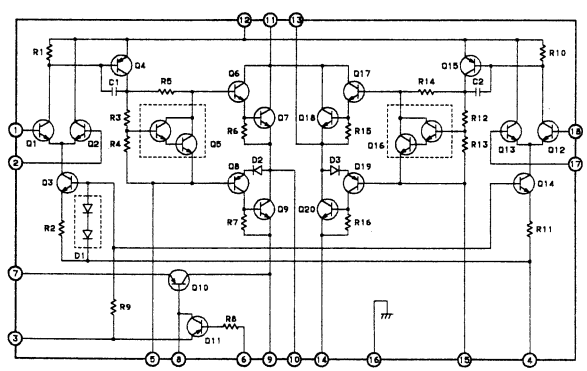
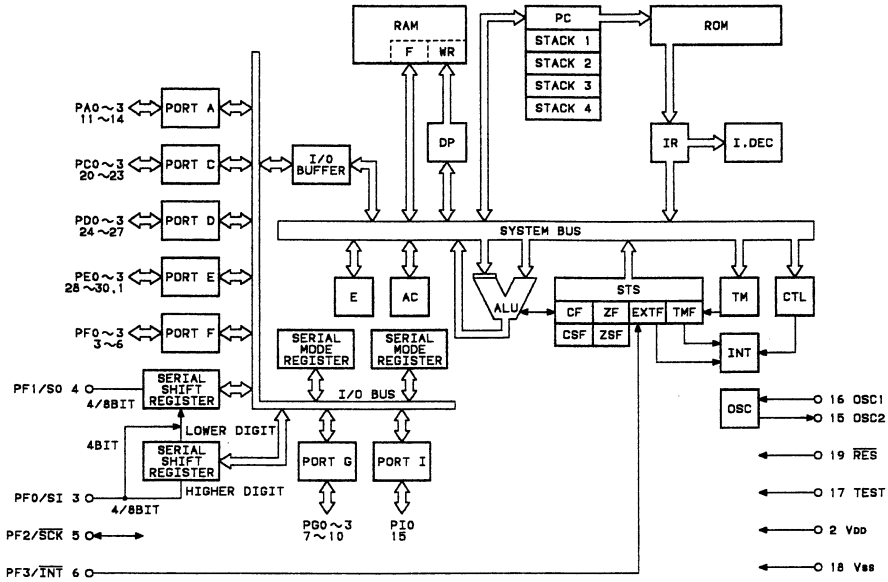


STK4152MK2 BLOCK DIAGRAM

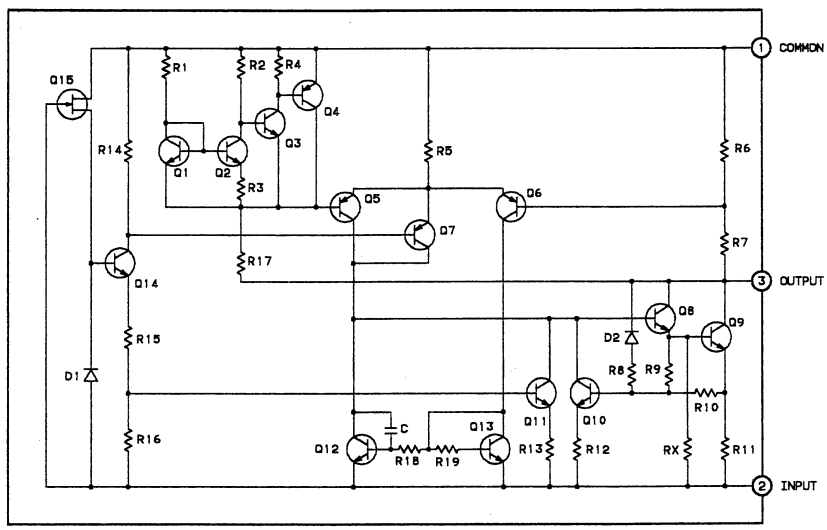


IC BLOCK DIAGRAM (Continued)

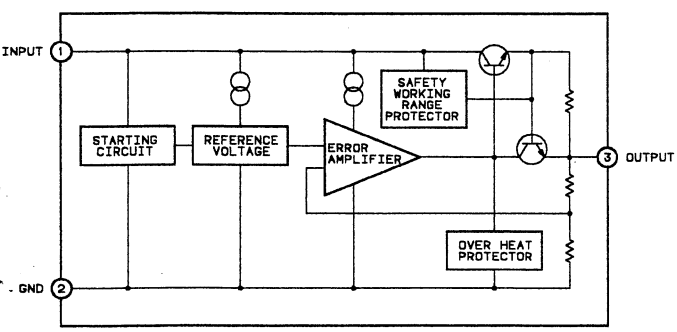
LC6543H-4378 BLOCK DIAGRAM



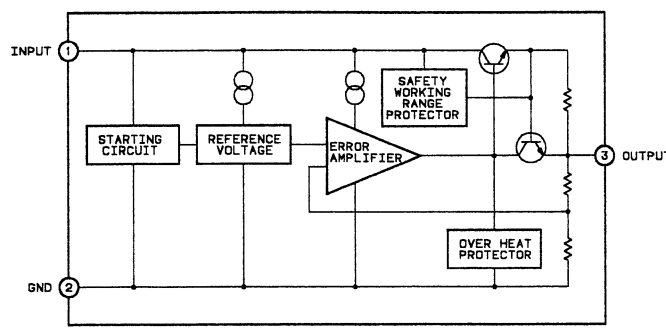
NJM79M15FA BLOCK DIAGRAM



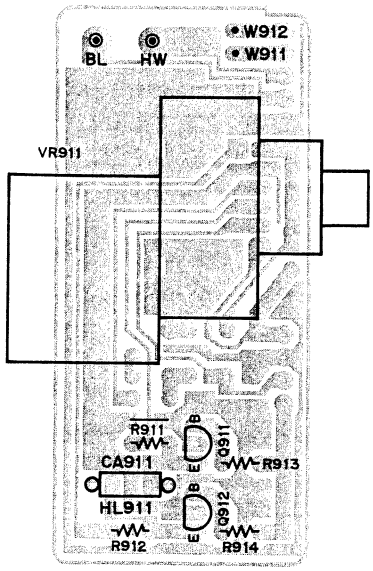
L78M12ML BLOCK DIAGRAM



L78M15ML BLOCK DIAGRAM

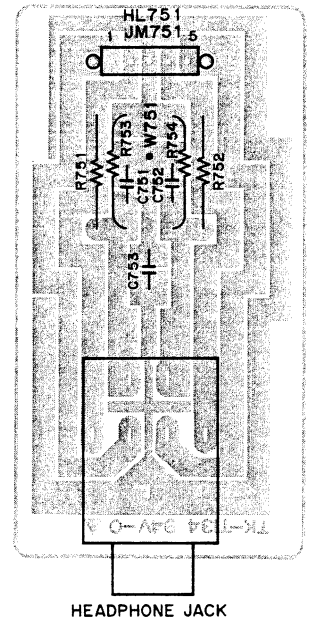


VOLUME P.C.BOARD
(BOTTOM VIEW)

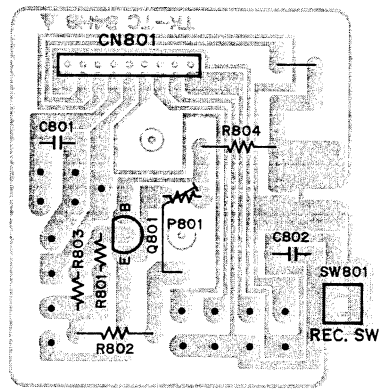


TRANSISTOR DC VOLTAGES				
Ref. No.	DEVICE	B	C	E
Q911	2SD1012	0.2V	0V	0V
Q912	2SD1012	0.3V	0V	0V

HEADPHONE P.C.BOARD
(BOTTOM VIEW)

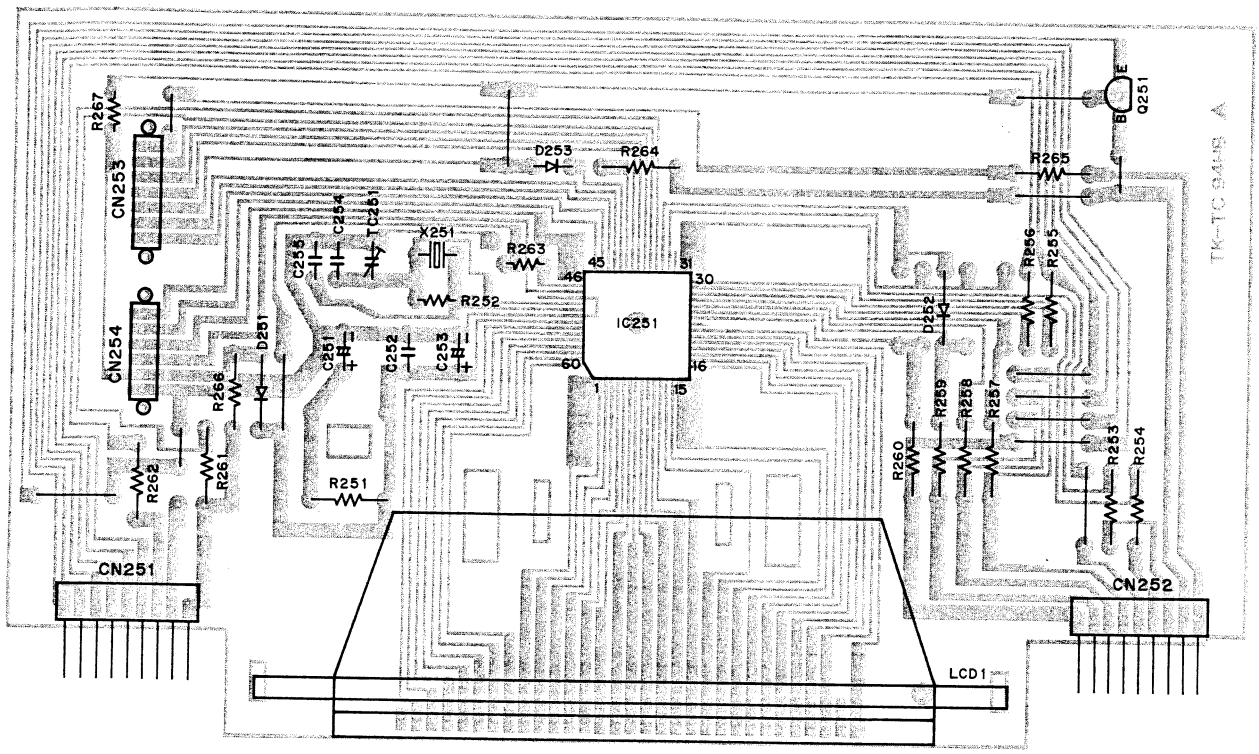


DECK MECHA P.C.BOARD
(BOTTOM VIEW)



TRANSISTOR DC VOLTAGES				
Ref. No.	DEVICE	B	C	E
Q801	2SC536	0V	0.3V	0.4V

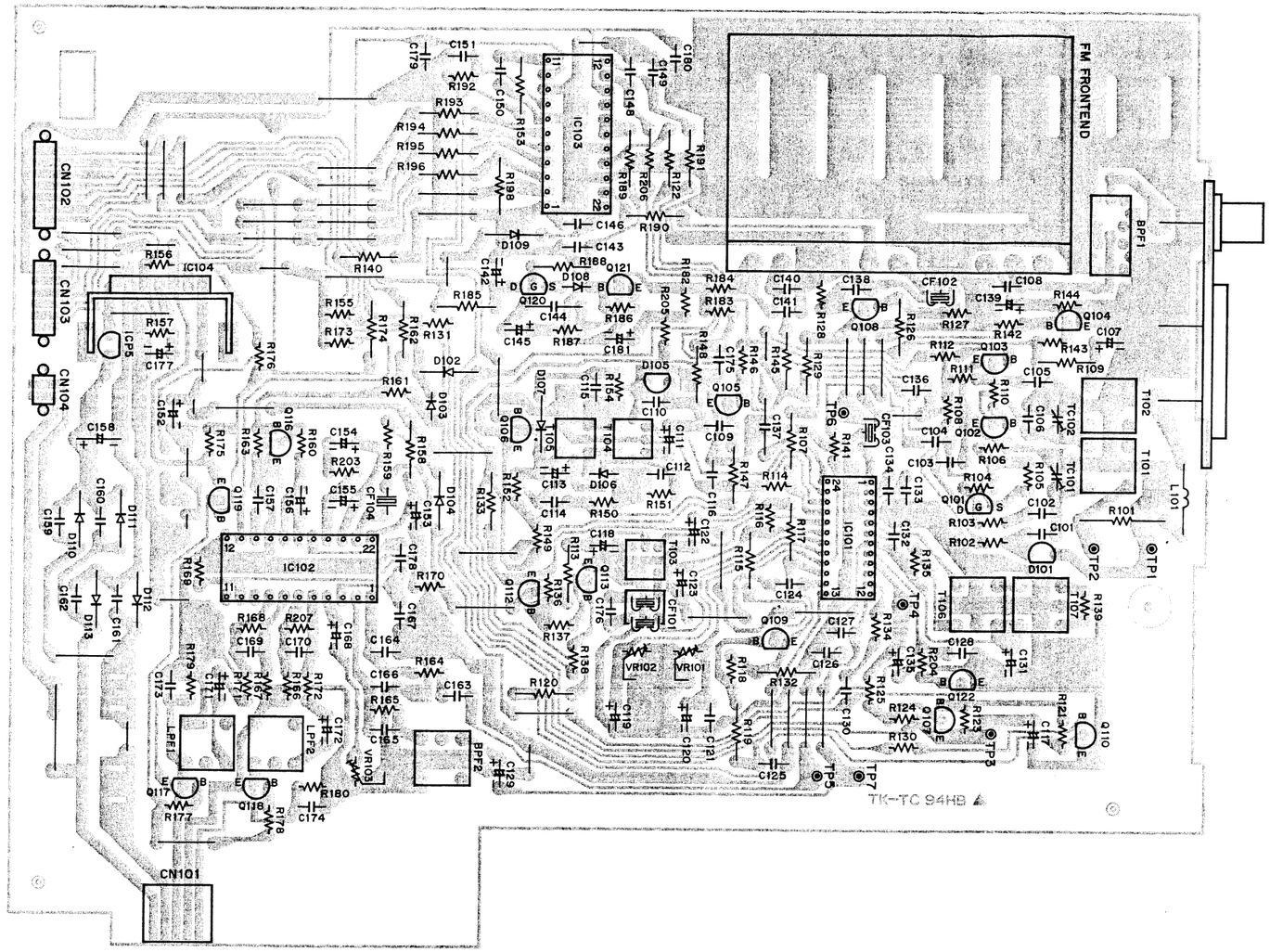
CONTROL P.C.BOARD
(BOTTOM VIEW)



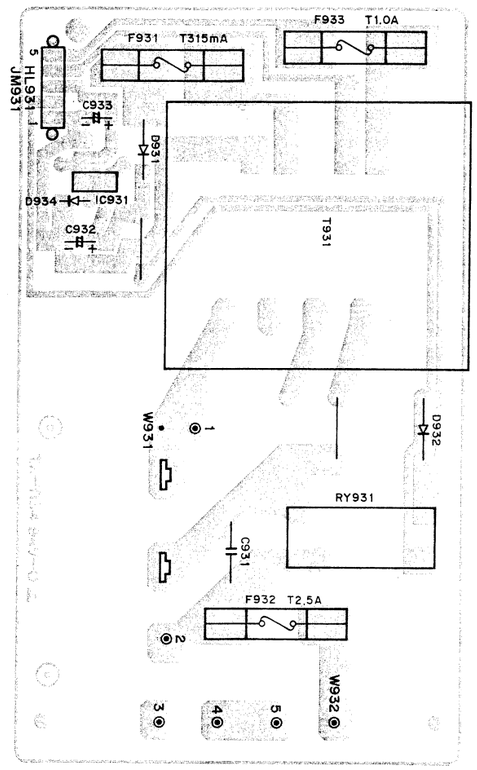
TRANSISTOR DC VOLTAGES				
Ref. No.	DEVICE	B	C	E
Q251	2SC3400	0V	0.9V	0V

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC251	TC9306F	2.4V	2.4V	2.4V	2.4V	2.4V	2.6V	2.4V	2.4V	2.4V	2.4V	2.4V	2.5V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		2.4V	2.4V	4.9V	0V	0V	0V	0V	4.9V	4.9V	4.9V	4.9V	4.9V	0V	0V	1.1V	5.3V	5.3V	3.4V	3.8V	0V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		4.9V	0V	0V	0V	0V	2.4V	4.9V	4.8V	0V	2.1V	2.1V	0V	4.9V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V

TUNER PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



SUB TRANS P.C.BOARD
(BOTTOM VIEW)



IC PIN NUMBERS DC VOLTAGES

Ref. No.	DEVICE	1	2	3	4
IC931	L78M05	5.6V	0.6V	16.0V	–

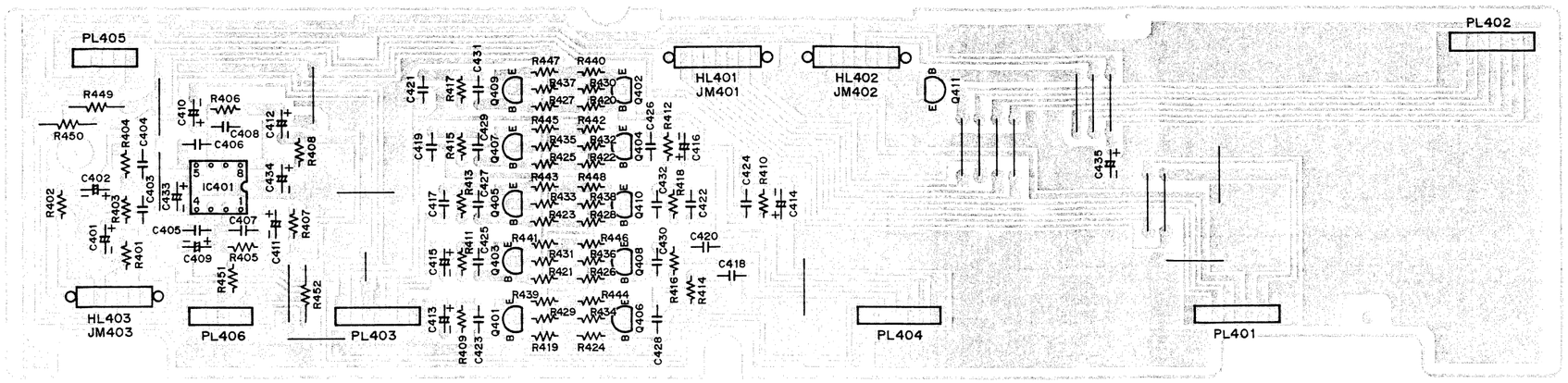
IC PIN NUMBERS DC VOLTAGES

Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC101	LA1266	2.5V	2.5V	2.5V	0V	13.0V	13.1V	13.1V	3.8V	3.8V	2.4V	2.8V	3.2V	0V	0V	2.4V	0V	0V	2.5V	2.4V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		3.9V	3.9V	3.9V	3.3V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC102	LA3400	3.2V	3.2V	3.2V	3.2V	6.8V	3.2V	3.2V	6.7V	3.2V	0V	0V	0V	5.3V	4.9V	0V	1.7V	3.1V	2.8V	2.9V	2.9V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		3.5V	12.9V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC103	TC9227P	0V	2.4V	0V	0V	0V	0V	0V	0V	0V	4.8V	0V	0V	0V	4.8V	4.8V	0.5V	0.5V	0V	0V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		2.2V	4.8V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC104	LA5667	17.1V	0V	4.8V	17.1V	5.5V	5.4V	13.3V	–	–	–	–	–	–	–	–	–	–	–	–	–

TRANSISTOR DC VOLTAGES

Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q102	2SD1012	0.6V	0V	0V	Q109	2SA608	3.7V	2.4V	2.5V	Q119	2SA608	0V	−0.2V	0V
Q103	2SC536	0V	2.9V	0V	Q110	2SC536	0.6V	0V	0V	Q121	2SC3069	0.5V	8.4V	0V
Q104	2SC536	0V	4.3V	0V	Q112	2SA608	13.0V	0V	13.1V	Q122	2SC536	0.6V	0V	0V
Q105	2SC536	0V	12.6V	0V	Q113	2SC536	0V	12.6V	0V					
Q106	2SC536	0V	12.5V	0V	Q116	2SC536	0V	0V	0V			G	D	S
Q107	2SA608	3.3V	3.9V	3.9V	Q117	2SD1012	−1.2V	0V	0V	Q101	2SK246	12.3V	3.3V	1.9V
Q108	2SC2839	2.0V	12.6V	1.3V	Q118	2SD1012	−1.2V	0V	0V	Q120	2SK246	5.1V	1.0V	0.5V

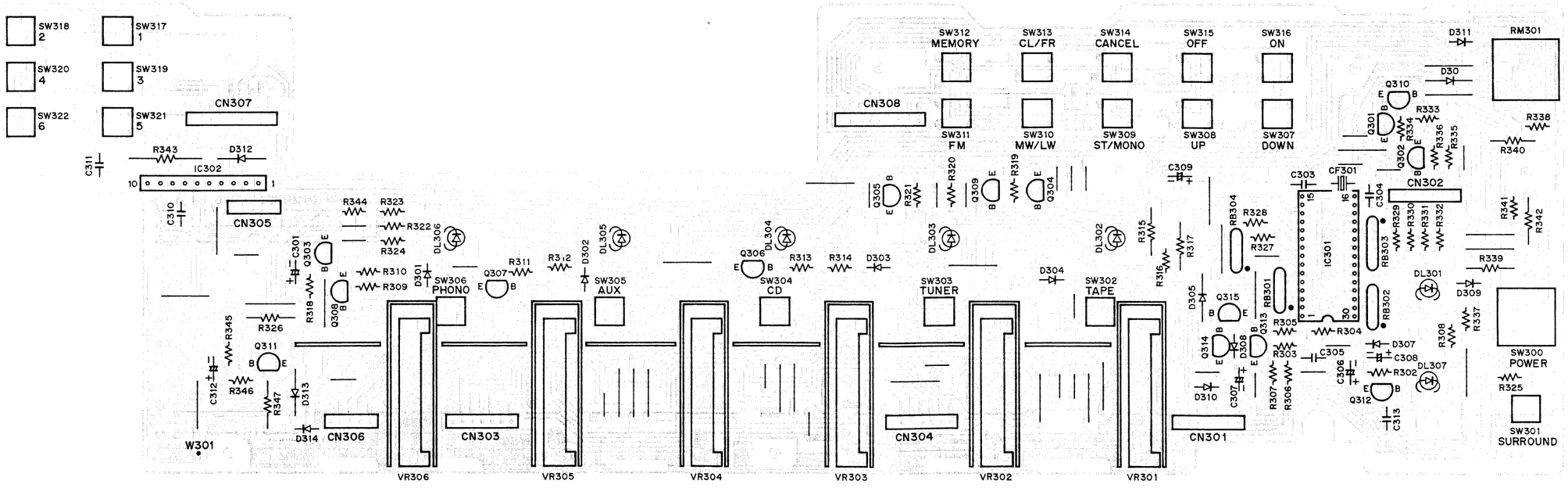
GRAPHIC EQUALIZER PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



IC PIN NUMBERS DC VOLTAGES									
Ref. No.	DEVICE	1	2	3	4	5	6	7	8
IC401	LA6458DS	0V	0V	0V	−11.3V	0V	0V	0V	11.4V

TRANSISTOR DC VOLTAGES				
Ref. No.	DEVICE	B	C	E
Q401	2SC536	−0.7V	10.9V	−1.3V
Q402	2SC536	−0.6V	10.9V	−1.3V
Q403	2SC536	−0.4V	10.9V	−1.1V
Q404	2SC536	−0.4V	10.9V	−1.0V
Q405	2SC536	−0.1V	10.9V	−0.7V
Q406	2SC536	−0.1V	10.9V	−0.8V
Q407	2SC536	−0.1V	10.9V	−0.7V
Q408	2SC536	−0.1V	10.9V	−0.7V
Q409	2SC536	−0.1V	10.9V	−0.7V
Q410	2SC536	−0.1V	10.9V	−0.7V
Q411	2SC536	0V	11.6V	0V

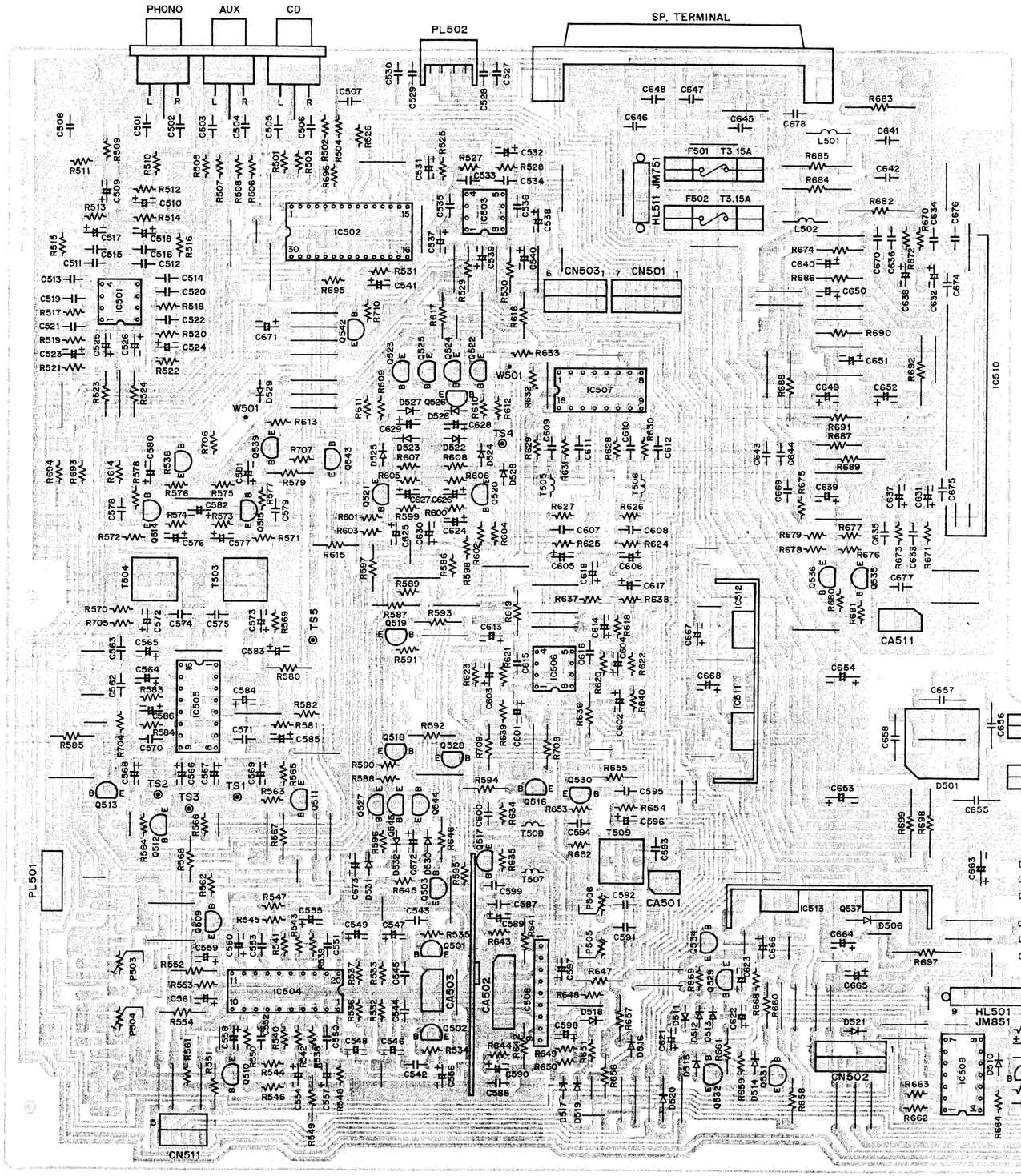
CONTROL PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



TRANSISTOR DC VOLTAGES													
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q301	2SC536	0V	−0.3V	−0.3V	Q306	2SA608	0V	0V	−0.6V	Q311	2SC536	−0.8V	0.3V	0V
Q302	2SC536	−0.3V	0V	−0.3V	Q307	2SA608	0V	0V	−0.5V	Q312	2SC536	−0.3V	0.1V	−0.3V
Q303	2SA608	0V	−0.9V	0V	Q308	2SA608	0V	0V	−0.5V	Q313	2SC3400	−0.3V	−0.3V	−0.3V
Q304	2SA608	0.4V	−0.3V	0.3V	Q309	2SA608	0.4V	0.4V	0.4V	Q314	2SA608	−0.2V	−0.3V	−0.1V
Q305	2SA608	0.4V	0.4V	0.2V	Q310	2SC536	−0.2V	−0.2V	0V	Q315	2SC536	−0.2V	0.1V	0V

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC301	LC6543H	−4.0V	−0.3V	−3.2V	−2.0V	−1.8V	−1.8V	−0.3V	−0.1V	0V	0V	0.2V	0.2V	0.1V	0.2V	0V	−2.0V	−4.0V	−4.0V	−0.7V	−3.9V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		−3.9V	−3.9V	−3.9V	−4.0V	−3.8V	−4.0V	−4.0V	−3.9V	−3.9V	−4.0V	−	−	−	−	−	−	−	−	−	−
IC302	LB1641	0V	0.5V	0.7V	0.5V	0V	0V	16.5V	5.0V	0.7V	0.5V	−	−	−	−	−	−	−	−	−	−

MAIN PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



IC PIN NUMBERS DC VOLTAGES

Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC501	LA6458DS	0V	0V	0V	−14.1V	0V	0V	0V	14.2V	—	—	—	—	—	—	—	—	—	—	—	—
IC502	LC7821	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	−14.9V	0V	0V	0V	0V	0V	15.0V	15.0V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	—	—	—	—	—	—	—	—	—
IC503	LA6458DS	0V	0V	0V	−14.0V	0V	0V	0V	14.2V	—	—	—	—	—	—	—	—	—	—	—	—
IC504	LA3246	0V	0V	0.5V	4.0V	4.0V	0V	0V	4.0V	5.4V	0V	9.2V	9.2V	8.4V	0V	5.6V	3.9V	3.9V	0.5V	0V	0V
IC505	HA12136A	5.0V	10.3V	5.0V	4.9V	0.2V	4.9V	1.2V	4.9V	4.9V	1.2V	4.9V	0V	0.8V	5.0V	0V	5.0V	—	—	—	—
IC506	LA6458DS	6.0V	6.0V	5.9V	0V	5.9V	6.0V	6.0V	10.9V	—	—	—	—	—	—	—	—	—	—	—	—
IC507	LB1214	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	—	—	—	—
IC508	μPC1330HA	0V	0V	0V	0V	0V	9.9V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	—	—	—	—
IC509	MLC4001B	0V	0V	0V	11.6V	0V	0V	0V	11.2V	11.2V	0V	11.6V	0V	0V	11.7V	—	—	—	—	—	—
IC510	STK4152MK2	−0.2V	−0.2V	0V	−30.6V	−1.3V	0V	−32.5V	−33.2V	−33.2V	−33.7V	33.7V	32.1V	0V	−33.8V	−1.2V	0V	−0.1V	−0.1V	—	—
IC511	L78M15ML	15.0V	0V	27.6V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IC512	NJM79M15FA	−14.9V	−28.5V	0V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IC513	L78M12ML	11.6V	0V	19.9V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TRANSISTOR DC VOLTAGES

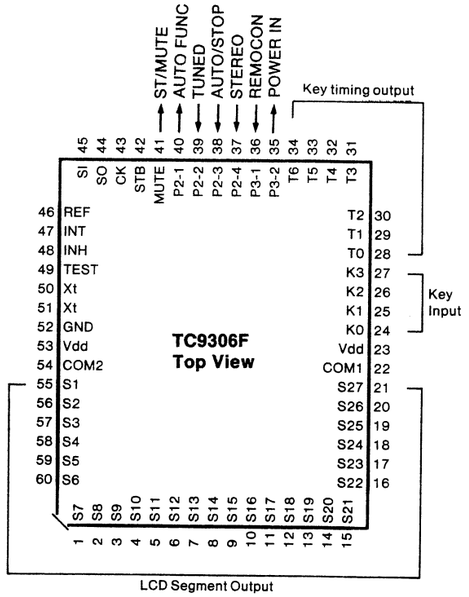
Ref. No.	DEVICE	B	C	E
Q501	2SC536	0.6V	0V	0V
Q502	2SC536	0.6V	0V	0V
Q503	2SC536	0V	6.4V	0V
Q509	2SC536	0.6V	0V	0V
Q510	2SC536	0.6V	0V	0V
Q511	2SC536	0.6V	0V	0V
Q512	2SC536	0.6V	0V	0V
Q513	2SC3400	0V	3.2V	0V
Q514	2SC3331	8.0V	10.4V	7.4V
Q515	2SC3331	8.0V	10.4V	7.4V
Q516	2SC536	0.6V	0V	0V
Q517	2SC536	0.6V	0V	0V
Q518	2SC536	0.6V	0V	0V

Ref. No.	DEVICE	B	C	E
Q519	2SC536	0V	0.6V	0V
Q520	2SC536	2.0V	6.2V	1.4V
Q521	2SC536	2.0V	6.4V	1.4V
Q522	2SC536	0V	11.0V	0V
Q523	2SC536	0V	11.0V	0V
Q524	2SC536	0V	0V	0V
Q525	2SC536	0V	0V	0V
Q526	2SC536	0V	0V	0.6V
Q527	2SC3400	0V	0.6V	0V
Q528	2SA1346	0V	11.6V	11.7V
Q529	2SC3400	11.0V	0V	0V
Q530	2SC3708	0V	0V	0V
Q531	2SC536	0.6V	0.5V	0V

Ref. No.	DEVICE	B	C	E
Q532	2SC536	0V	8.6V	0V
Q533	2SC536	0V	0V	0V
Q534	2SA1346	11.6V	0V	11.7V
Q535	2SC536	0V	0V	0V
Q536	2SC536	0V	0V	0V
Q537	2SD1913	12.5V	19.9V	11.9V
Q538	2SC536	0V	0V	0V
Q539	2SC536	0.6V	0V	0V
Q542	2SC536	0.6V	0V	0V
Q543	2SA1346	0V	11.6V	11.6V
Q544	2SA1346	0V	11.0V	11.0V
Q545	2SC536	0.6V	0V	0V

CPU PORT DESIGNATIONS (TC 9306F)

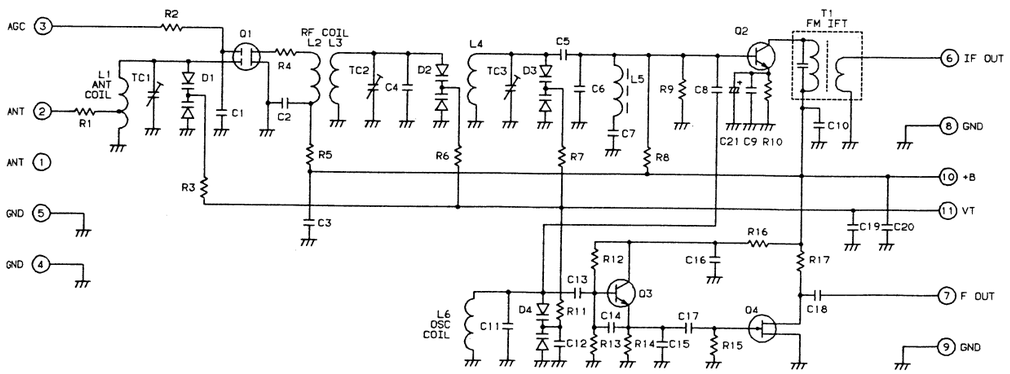
TC 9306F OUTLINE



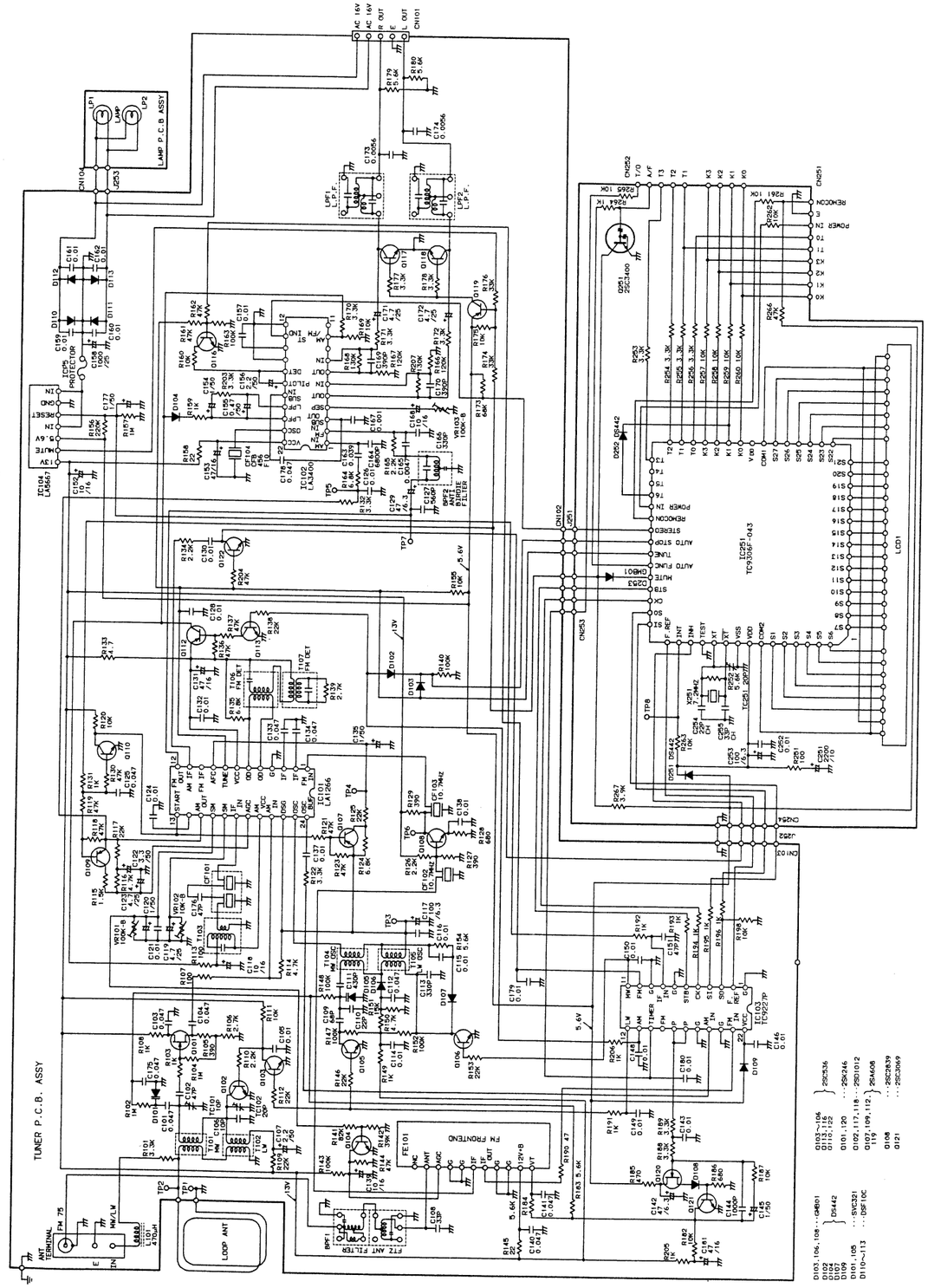
Port	Pin No.	Segment Name		Explanation of Function
		COM1	COM2	
COM1	22	COM1	–	Common 1
S27	21	AM	FM1	AM : MW (2 band) FM1 : FM1 band
S26	20	MW	FM2	MW : MW band FM2 : FM2 band
S25	19	LW	FM3	LW : LW band FM3 : FM3 band
S24	18	AUTO	MANUAL	AUTO : Auto Scan MANUAL : Manual Scan
S23	17	CH	1bc	CH : 6 CH 1bc : 108.00MHz segment
S22	16	[5]	STEREO	[5] : point 5 on level meter STEREO : Stereo In
S21	15	TUNED	MUTING	TUNED : Input On MUTING : Stereo/Mute On
S20	14	2f	2b	2f-a : 108.00MHz segment
S19	13	2e	2g	
S18	12	2d	2c	
S17	11	–	2a	
S16	10	3f	3b	3f-a : 108.00MHz segment
S15	9	3e	3g	
S14	8	3d	3c	
S13	7	FM dot	3a	: 108.00MHz mark
S12	6	4f	4b	4f-a : 108.00MHz segment
S11	5	4e	4g	
S10	4	4d	4c	
S9	3	[1]	4a	[1] : point 1 on level meter (normally ON)
S8	2	5g	5be	,5g-f : 108.00MHz segment, 0/5
S7	1	5acdf	[2]	[2] : point 2 on level meter
S6	60	[3]	kHz	[3] : point 3 on level meter kHz : MW/LW unit
S5	59	[4]	MHz	[4] : point 4 on level meter MHz : FM unit
S4	58	7f	7b	7S-a: 6 CH segment
S3	57	7e	7g	
S2	56	7d	7c	
S1	55	MEMORY	7a	MEMORY : Store mode
COM2	54	–	COM2	Common 2

Port	Pin No.	Name	Assignment	Active	Initial
MUTE	41	ST/MUTE	Stereo/Mute Output	L	L
P2-1	40	AUTO FUNC	Auto Func Output	L	H
P2-2	39	TUNED	Tuned Input	L	–
P2-3	38	AUTO/STOP	Auto/Stop Input	L	–
P2-4	37	STEREO	Stereo Ind. Input	L	–
P3-1	36	REMOCON	Remocon	–	–
P3-2	35	POWER IN	Power In	H	L

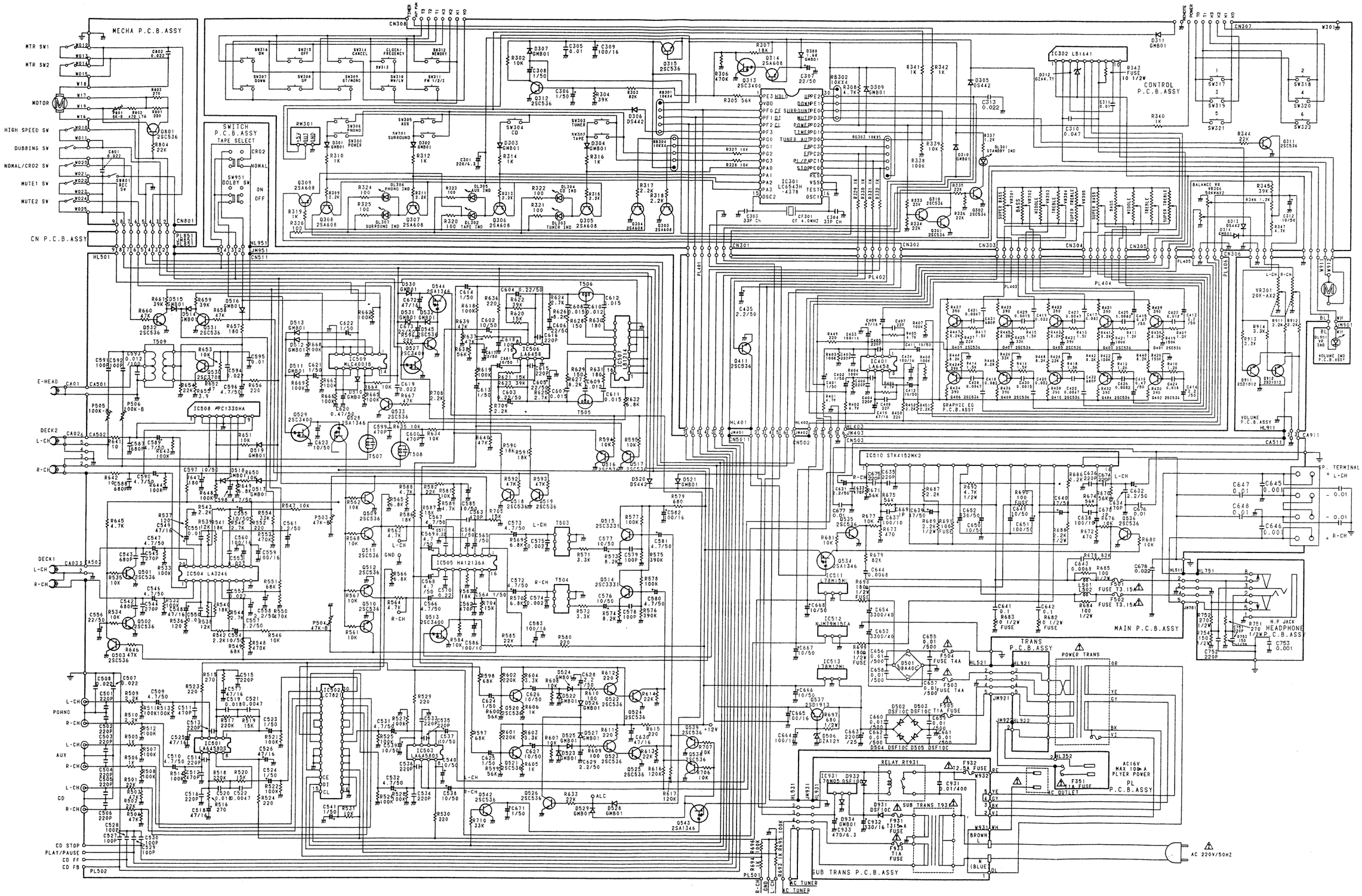
FM FRONT END SCHEMATIC DIAGRAM



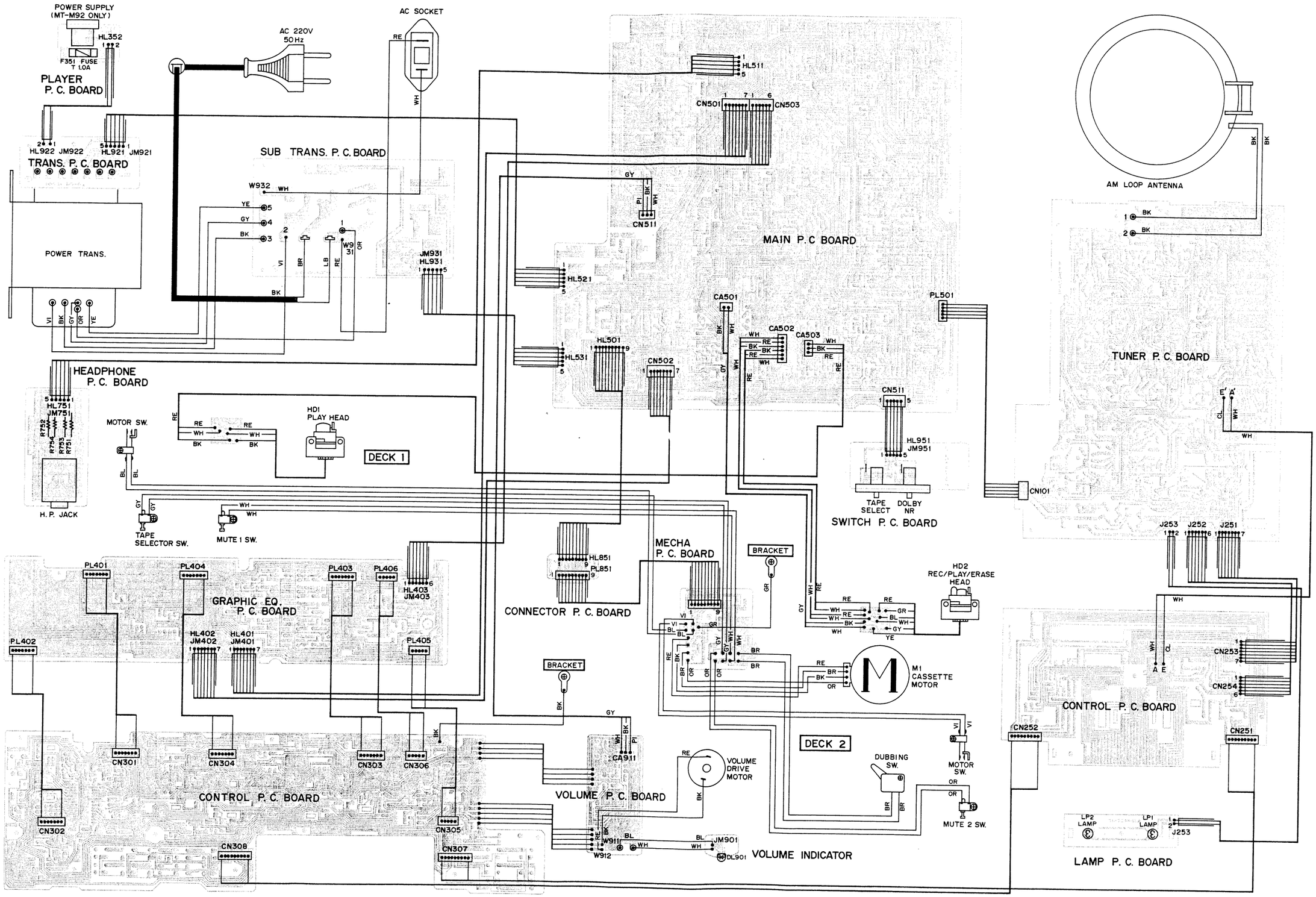
SCHEMATIC DIAGRAM (Tuner Section)



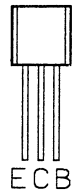
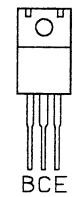
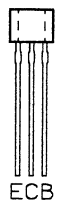
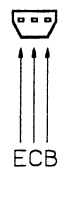
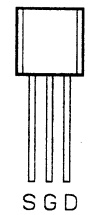
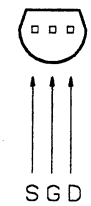
SCHEMATIC DIAGRAM (Main unit Section)



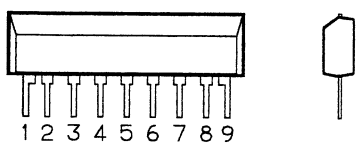
POINT TO POINT WIRING DIAGRAM



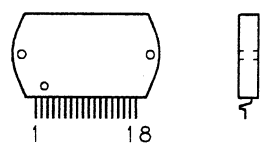
IC & TRANSISTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA608 2SC3069 2SC3331 2SC3708 2SC536			2SD1913		
2SA1346 2SA608 2SC2839 2SC3400 2SD1012			2SK246		
TERMINAL NAME					
B → BASE C → COLLECTOR E → EMITTER			S → SOURCE G → GATE D → DRAIN		

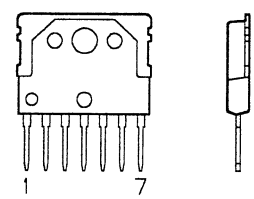
UPC1330HA FRONT/SIDE VIEWS



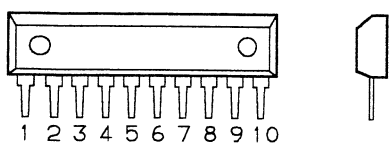
STK4152MK2 FRONT/SIDE VIEWS



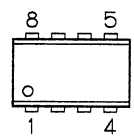
LA5667 FRONT/SIDE VIEWS



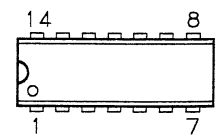
LB1641 FRONT/SIDE VIEWS



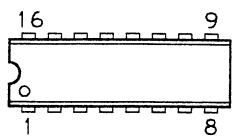
LA6458DS TOP VIEW



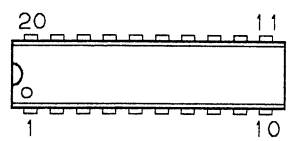
MLC4001B TOP VIEW



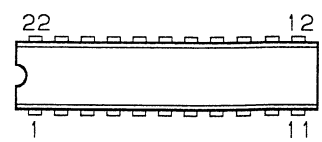
HA12136A TOP VIEW
LB1214 TOP VIEW



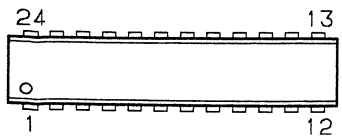
LA3246 TOP VIEW



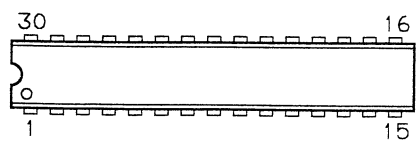
LA3400 TOP VIEW
TC9227P TOP VIEW



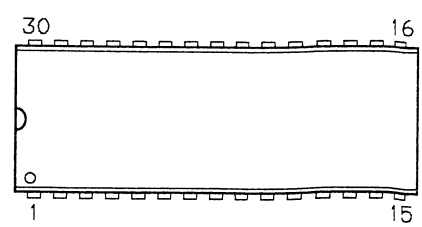
LA1266 TOP VIEW



LC7821 TOP VIEW

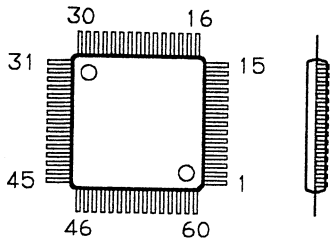


LC6543H-4378 TOP VIEW

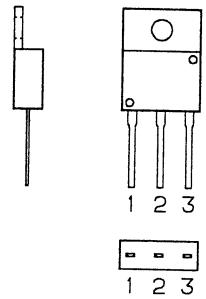


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

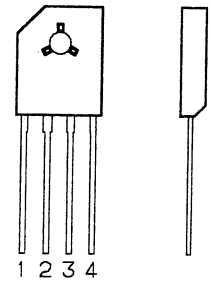
TC9306F-043 TOP/SIDE VIEWS



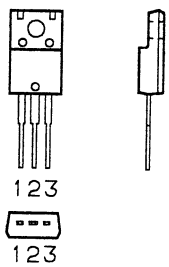
L78M05 TOP/SIDE VIEWS



LA5536N TOP/SIDE VIEWS



L78M12ML TOP/SIDE VIEWS
L78M15ML TOP/SIDE VIEWS
NJM79M15FA TOP/SIDE VIEWS



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SERVICE MANUAL

FISHER

STEREO DOUBLE CASSETTE RECEIVER WITH REM-M92 WIRELESS REMOTE CONTROL

TAC-M92(EX)

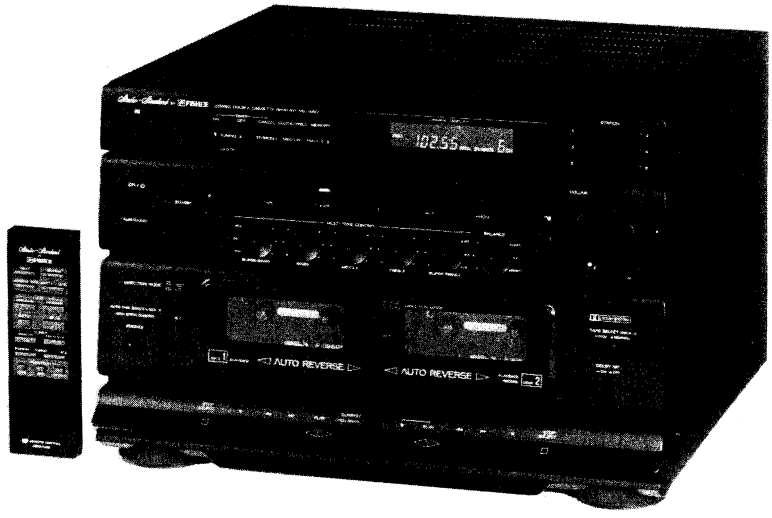
(EUROPE)

132 350 42 (Black)
132 350 43 (White)

This service manual is prepared for Model TAC-M92(EX). As only the components in the chart below differ, refer to the service manual TAC-M92 (WM-570303) for other components.

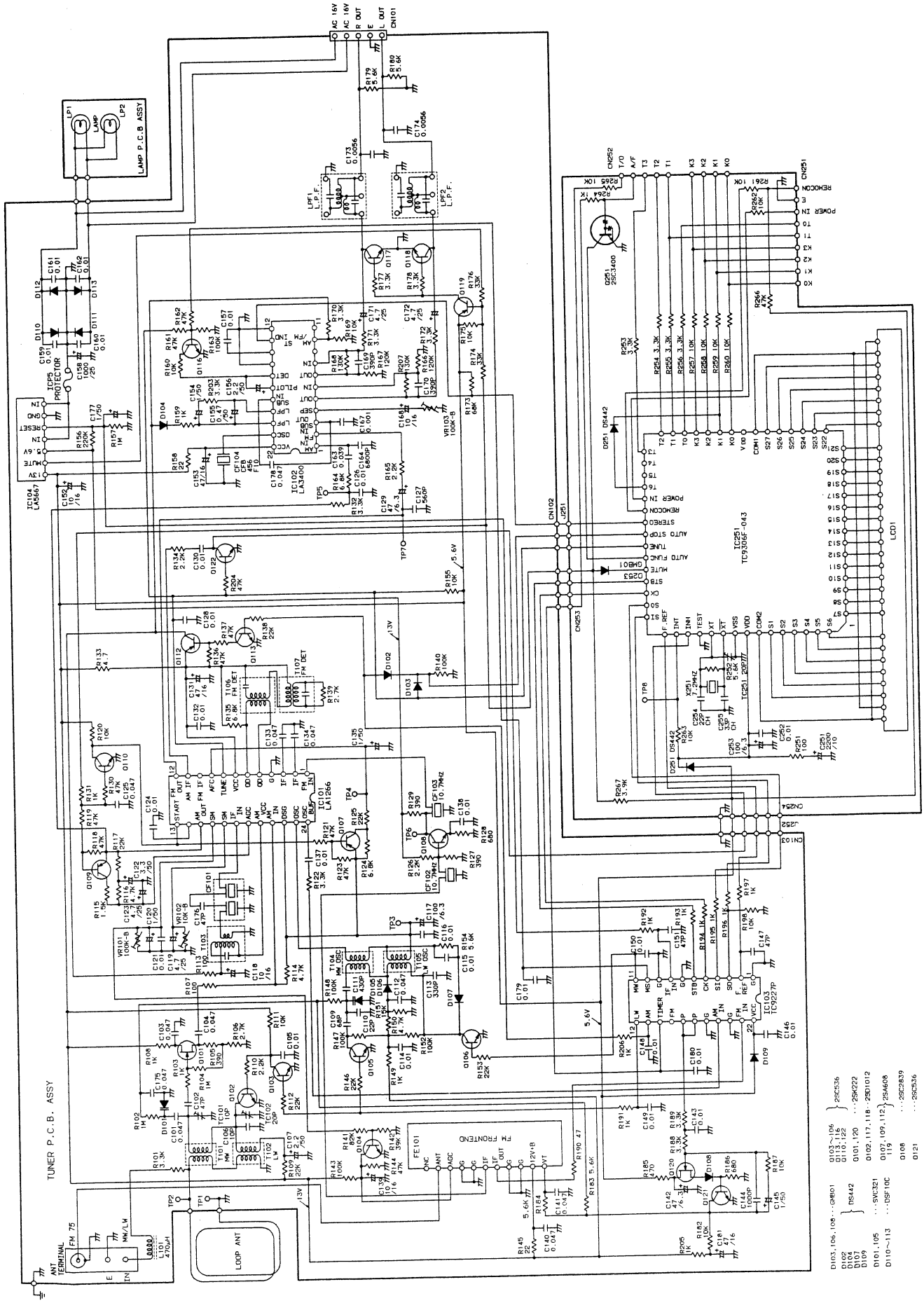
Ref.No.	TAC-M92	TAC-M92(EX)	Description	Q'ty
	PACKAGE			
	620 199 0911	620 204 5658	Inner Carton (Black)	1
	620 200 8608	620 204 5665	Inner Carton (White)	1
	CABINET			
	403 069 8404	– – – –	CERAMIC 0.01U Z 50V	2
7	620 198 9892	620 204 5641	Panel,Rear	1
61	620 200 1128	620 204 6143	Assy,PCB,Main	1
63	620 200 1142	620 204 6167	Assy,PCB,Headphone	1
72	620 200 2484	620 204 6266	Assy,PCB,Tuner	1

Add this sheet Model TAC-M92 Service Manual (WM-570303).



REFERENCE No. WM-570396

SCHEMATIC DIAGRAM (Tuner Section)



SCHEMATIC DIAGRAM (Main Section)